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THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

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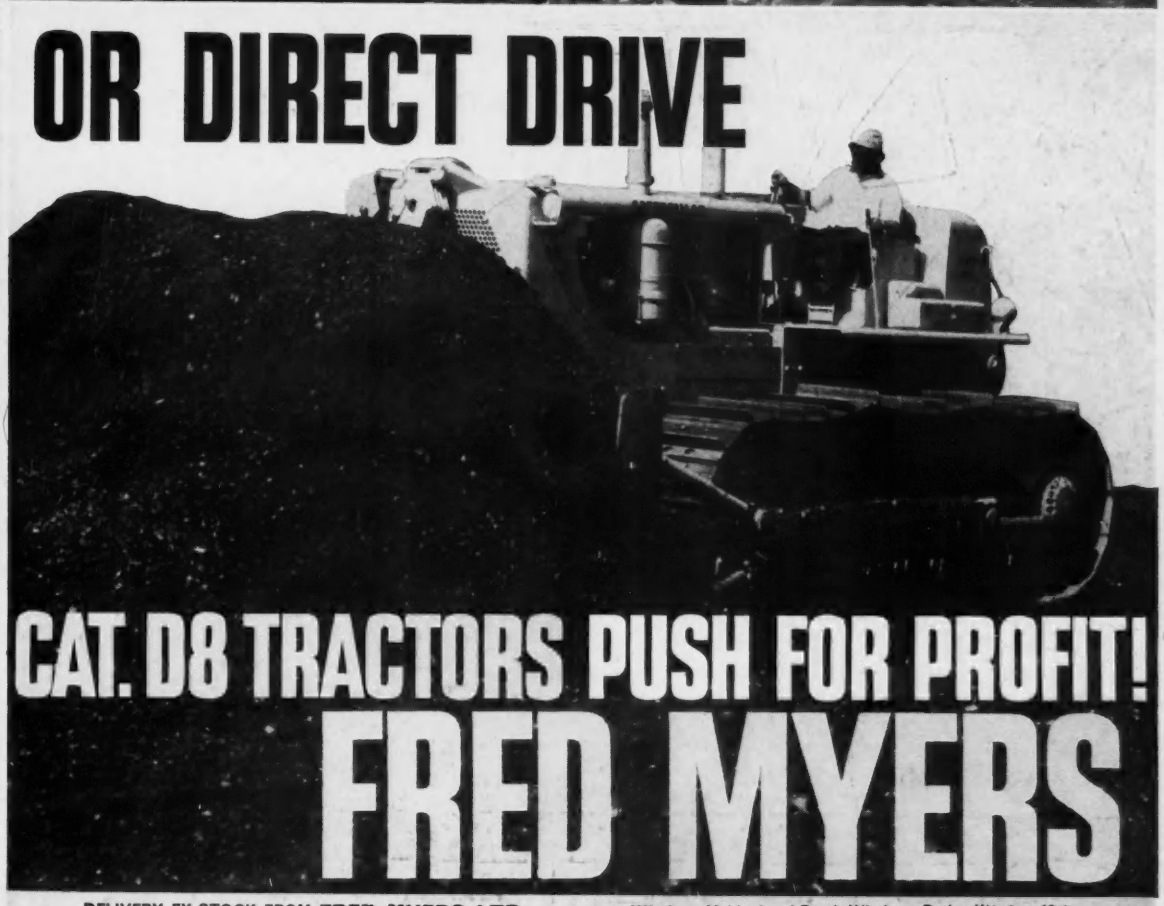

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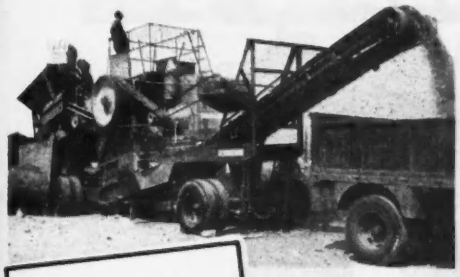

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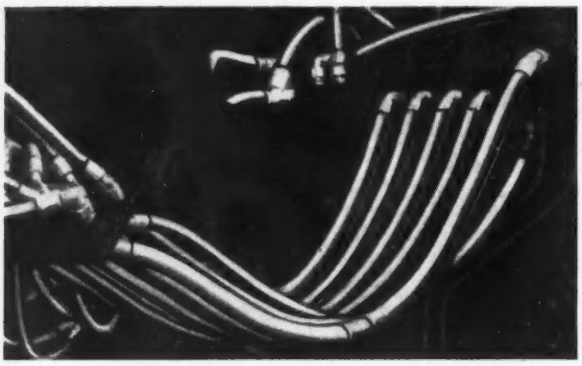

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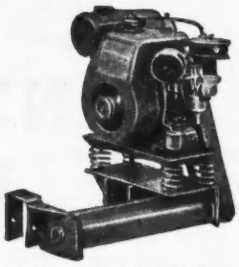

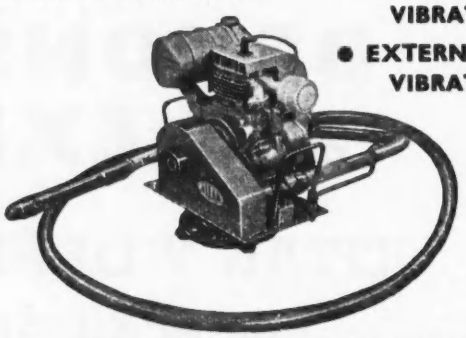

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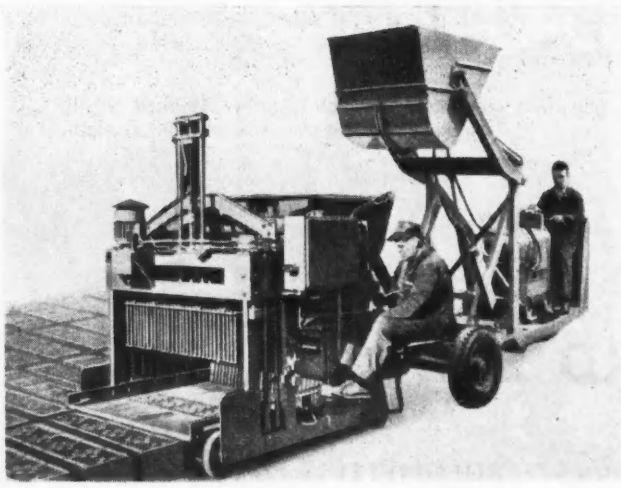

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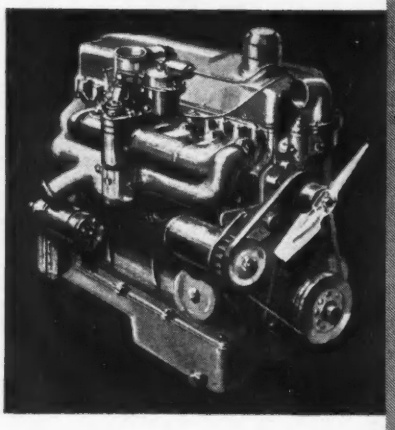

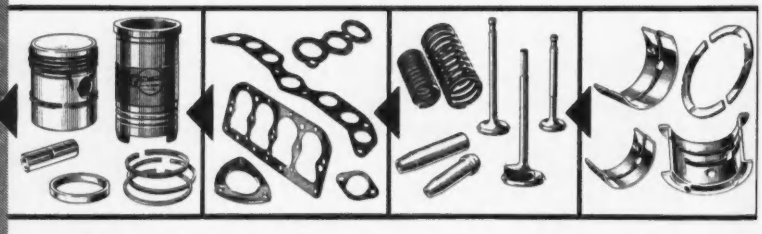

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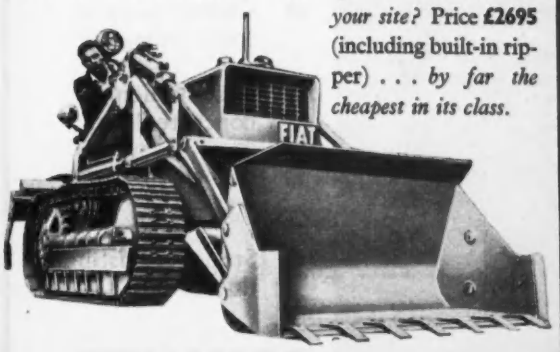

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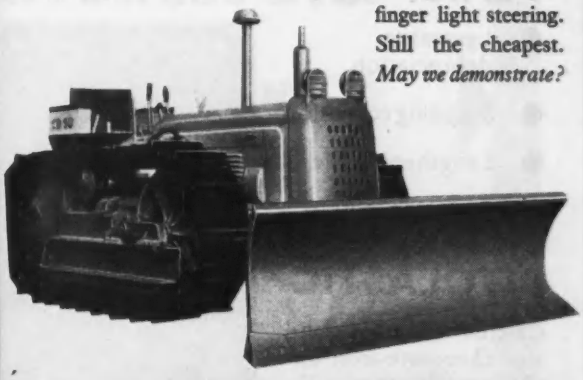

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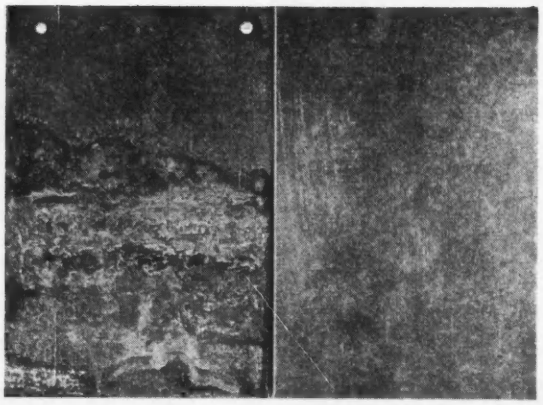

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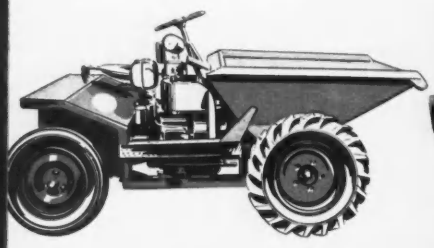

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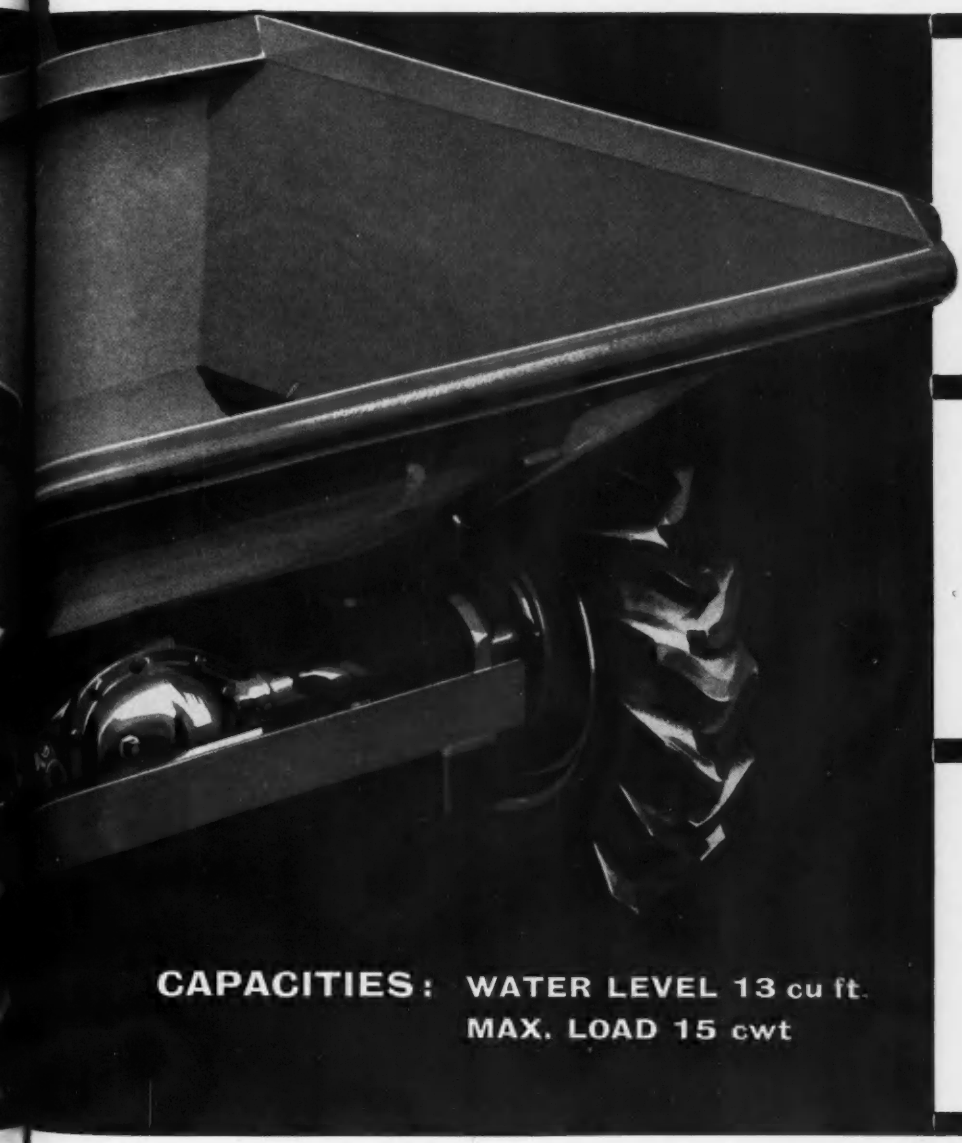

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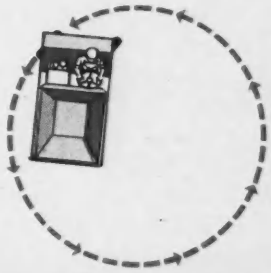

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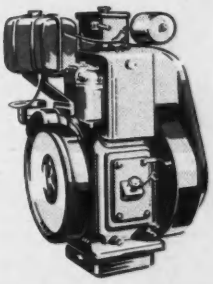

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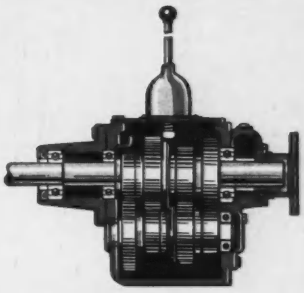

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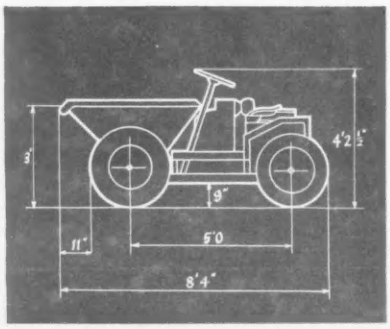

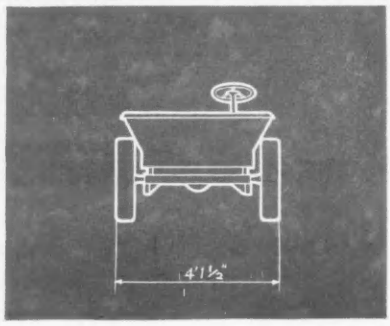

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CAPACITY 15 cwt maximum safe load. Water level: 13 cu ft. Struck off: 15 cu. ft. Heaped up: 19. cu. ft. **SPEEDS** 1st Gear: 2/2½ m.p.h. 2nd Gear: 4/5 m.p.h. Top Gear: 9/12 m.p.h. Reverse: 2 m.p.h. **DIESEL ENGINE** Petter AVA 1 single cylinder air cooled Diesel Engine. 5/6 h.p. at 1,700 r.p.m. with Purolator lubricating oil filter, paper element air cleaner and protected fuel racks. **CLUTCH AND TRANSMISSION** Specially designed foot operated clutch having a Ferodo face of extra large contact area disengaging a totally enclosed slow running ¾″ Renold roller chain with no jockey, from half-speed shaft of Engine to Gearbox. **GEARBOX** Heavy duty 3 speed constant mesh change-on-the-move Gearbox. Hypoid Axle with four star differential. **STEERING** Fully floating (12″) centre pivoted steering Axle of robust design on Ackerman principle. **CHASSIS** 3″ x 3″ Rolled Steel Angle reinforced as necessary. **WHEELS (Driving)** Steel Pressings for 5 stud fixing. **WHEELS (Steering)** Steel Pressings for 3 stud fixing. **TYRES (Driving)** 6.00 x 16,4 ply Track grip. **TYRES (Steering)** 5.00 x 16.4 ply Ribbed. **BRAKES** Girling 10″ x 1¼″ expanding brakes on driving wheels, foot and hand operated. **SKIP** Electrically welded ⅛″ Heavy Steel plate substantially reinforced at lip and edge. **LOADING HEIGHT** 36″. **TURNING RADIUS** Under 7′ 9″. **FUEL** Diesel. Tank capacity: 1½ gallons. **LUBRICATION** Gearbox, driving axle, engine and steering, oil bath; all other moving parts by grease points. **WEIGHT** 13¾ cwts. unladen. **CONTROLS** Non-slip Clutch and brake pedals. Handbrake, Gear lever and Skip locking catch situated on right hand side of driver.

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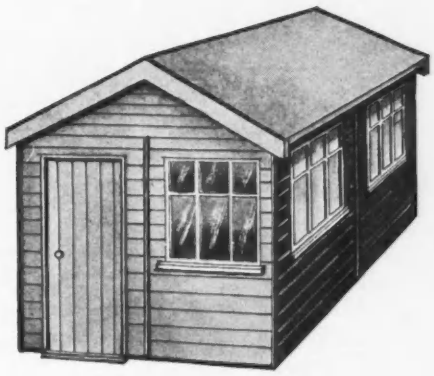

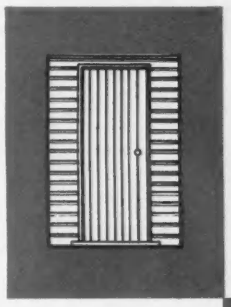

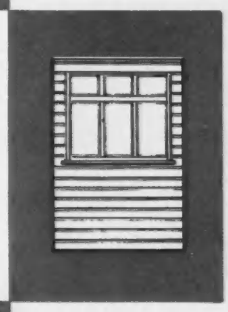

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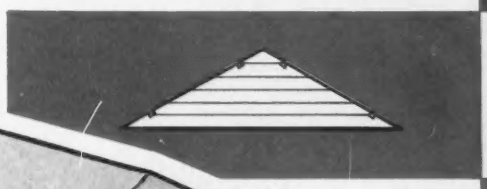

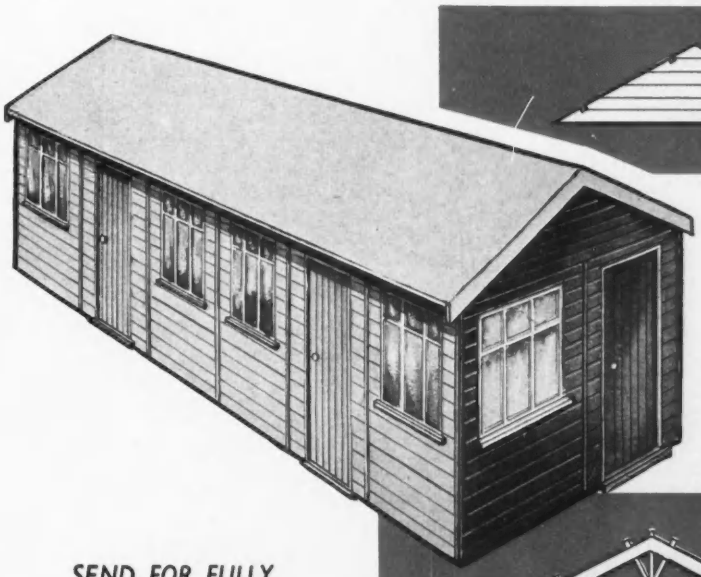

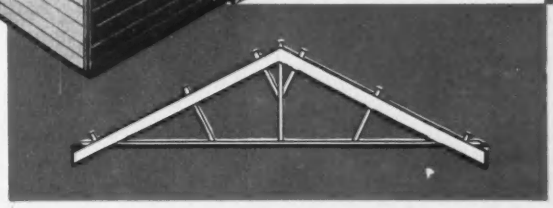

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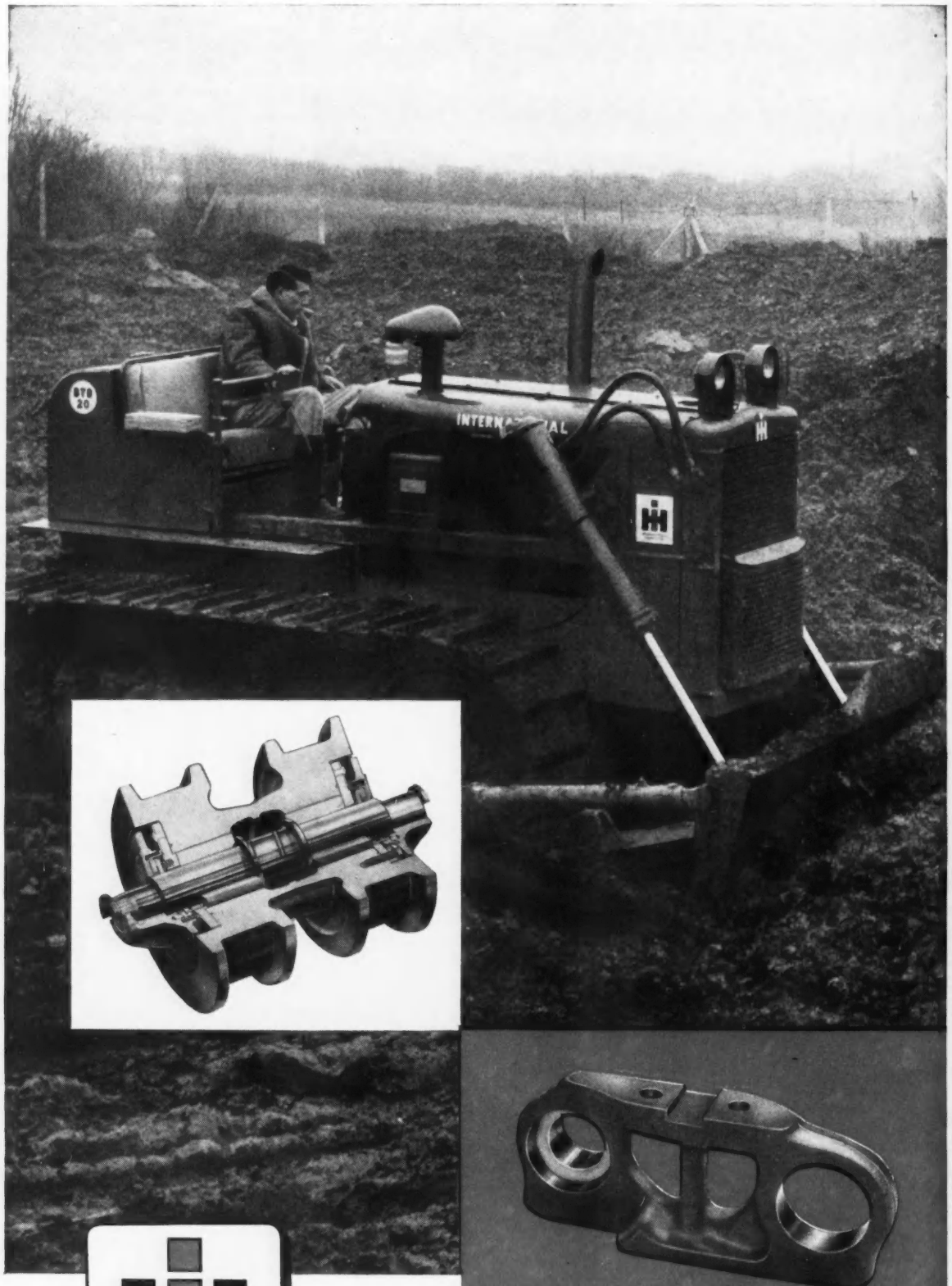

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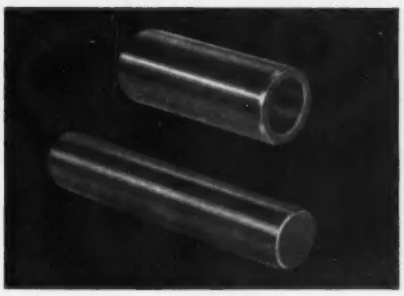

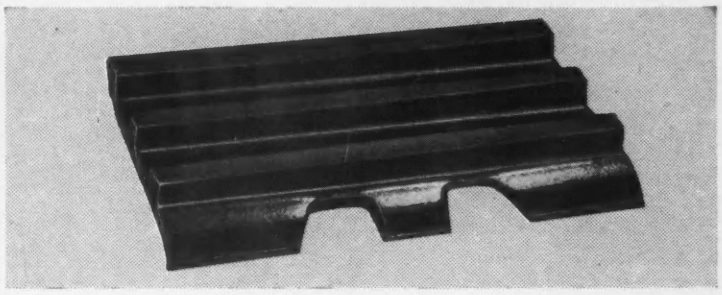

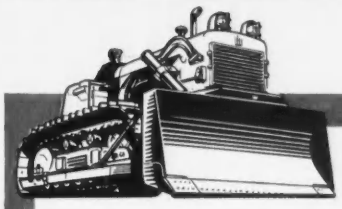

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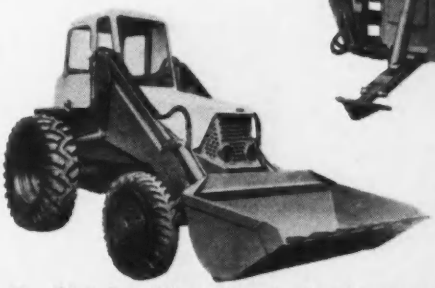

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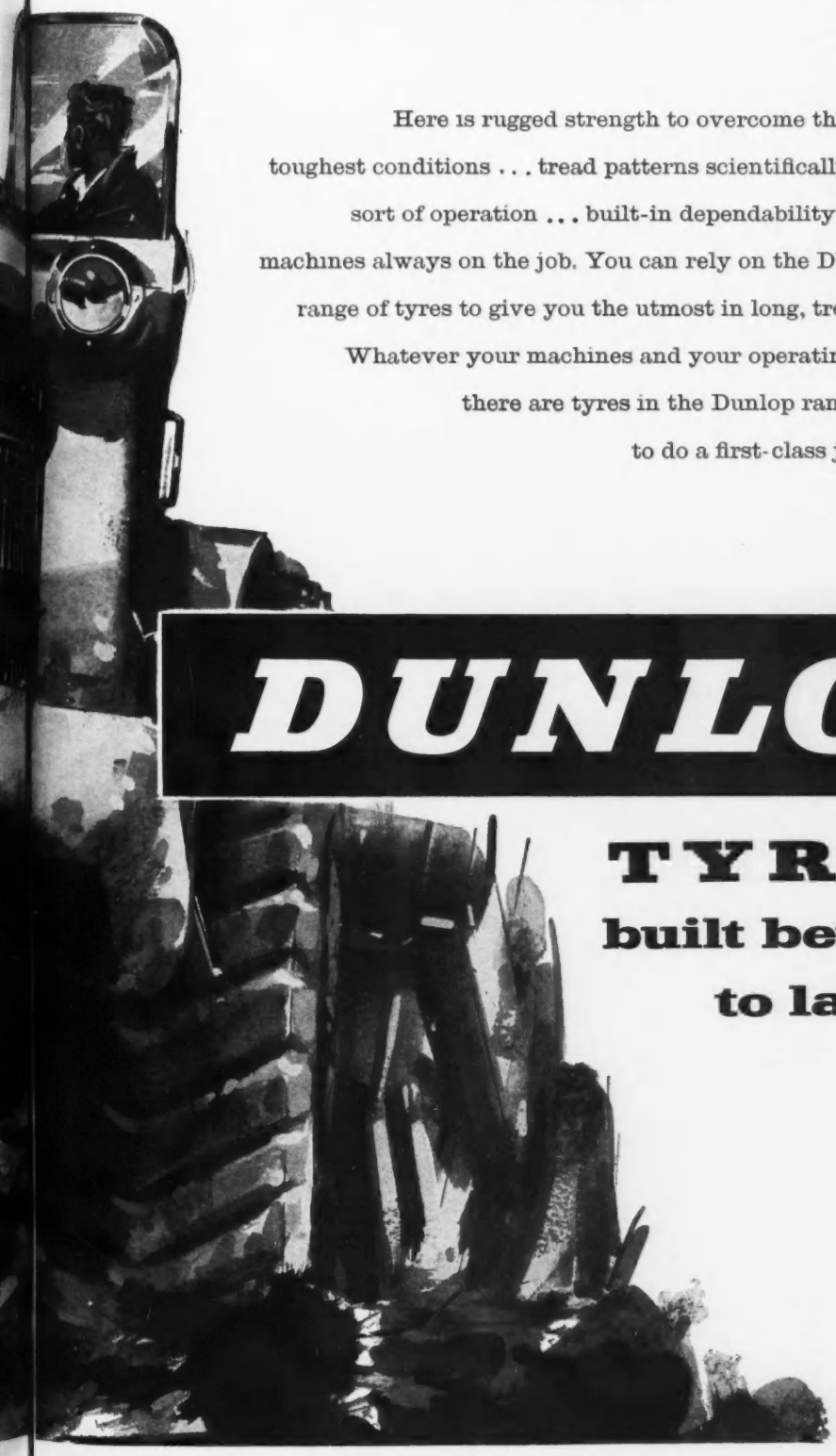

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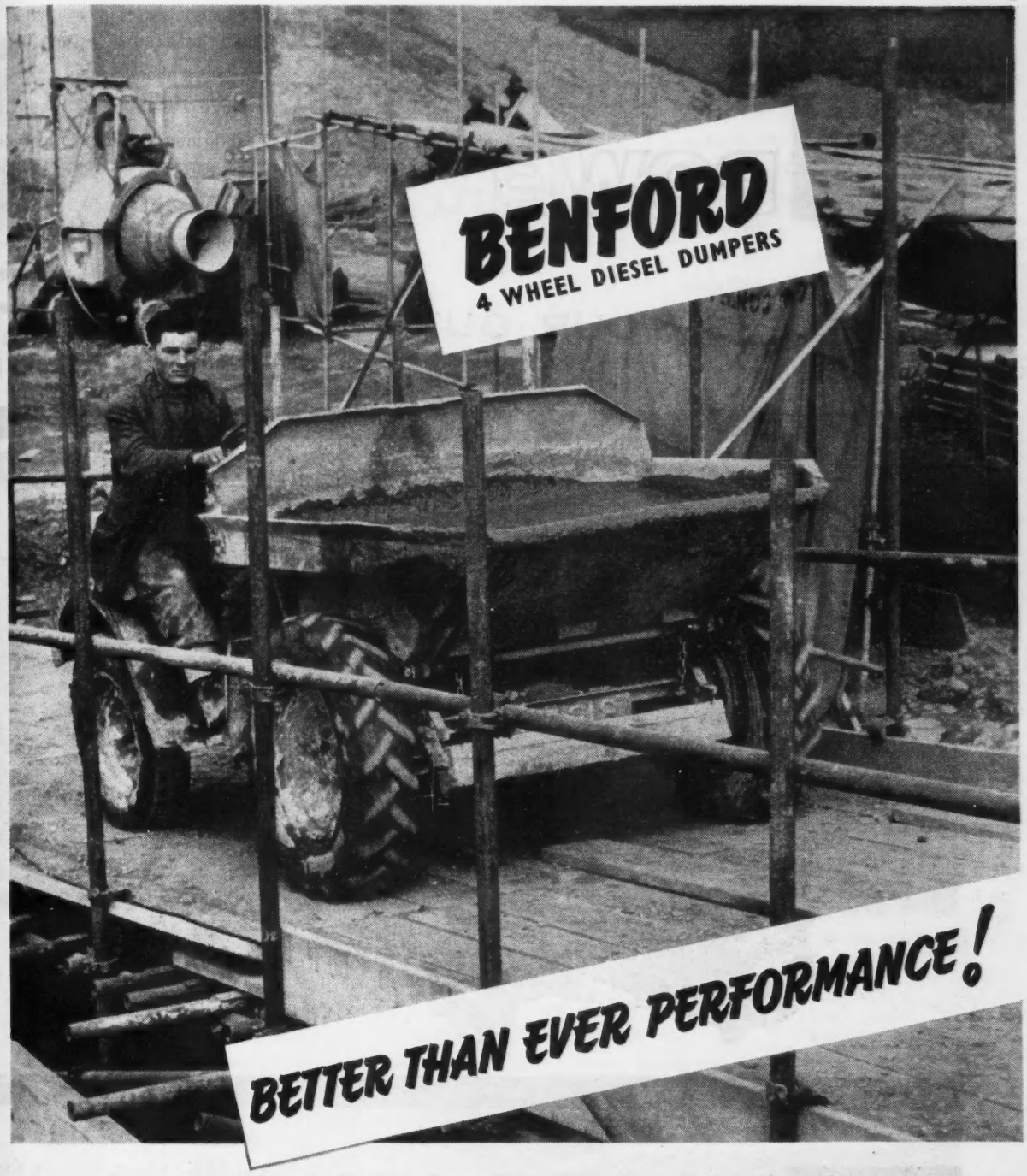

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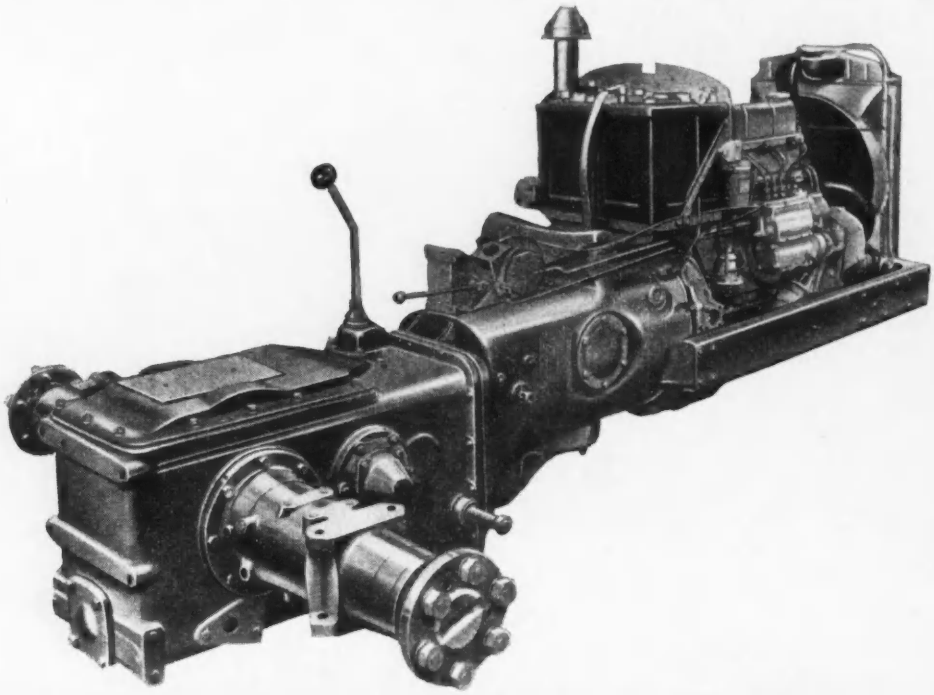

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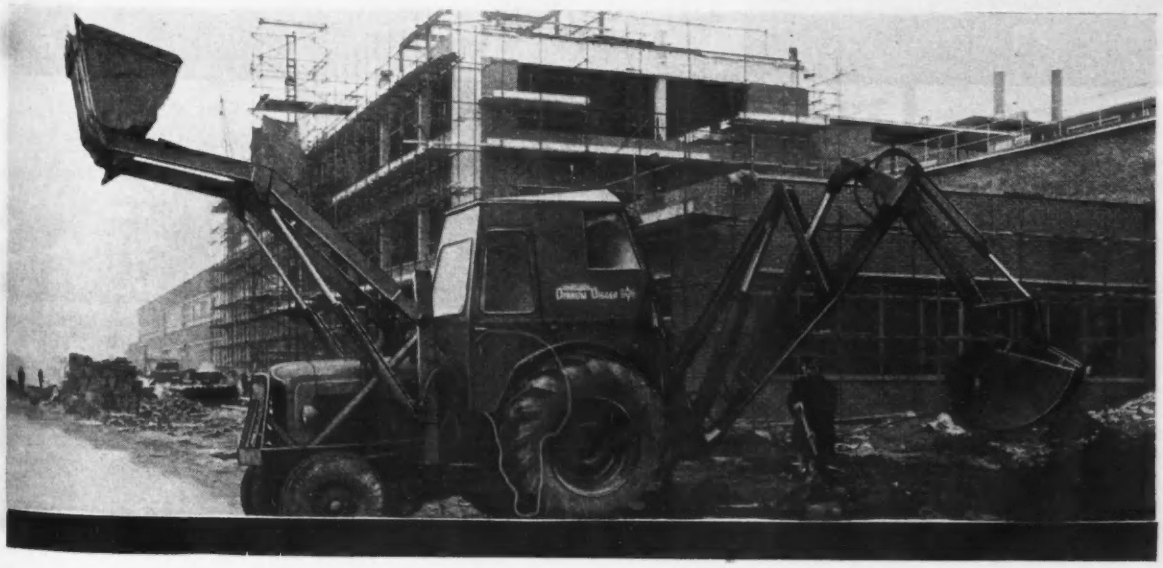

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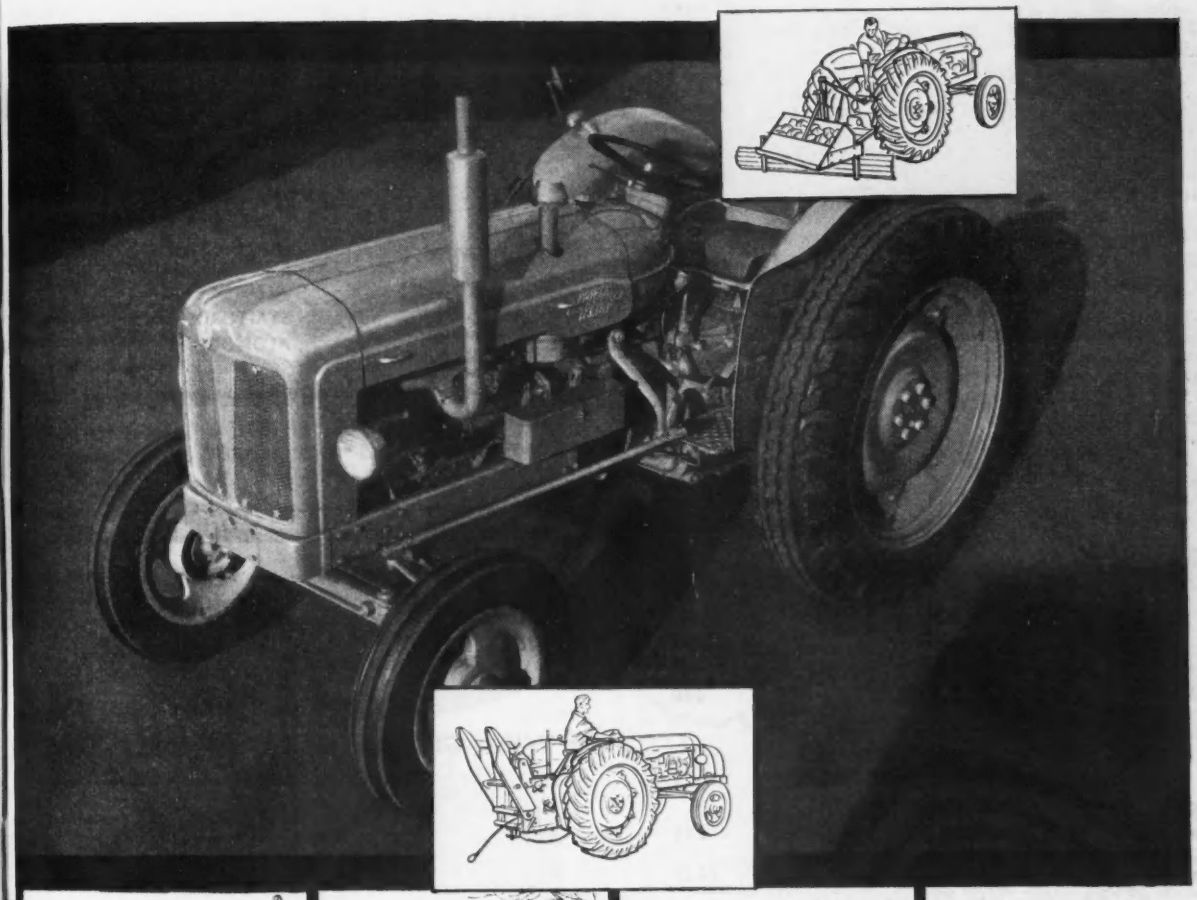

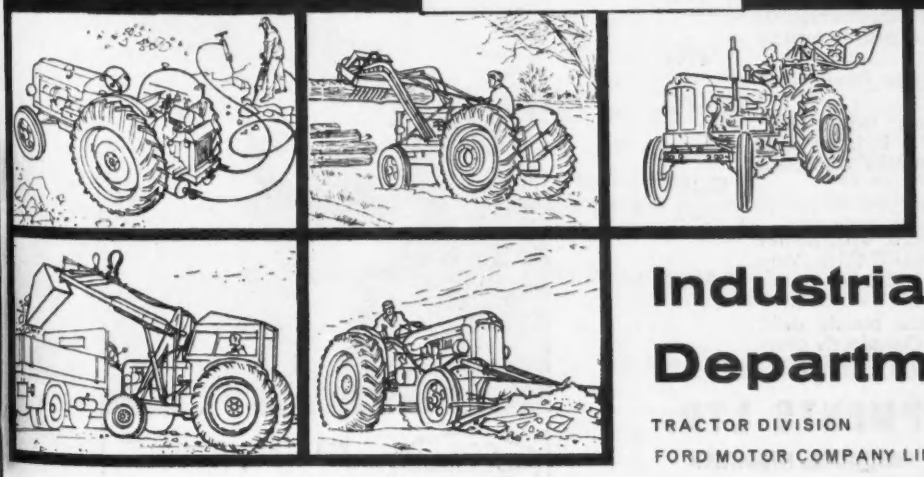

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FORD MOTOR COMPANY LIMITED DAGENHAM ESSEX

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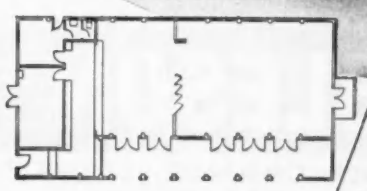

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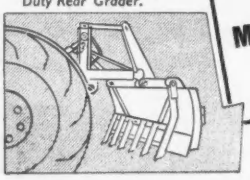

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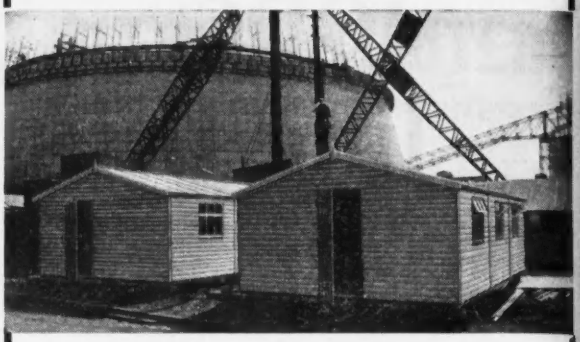

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WITH MORE THAN TWICE THE POWER

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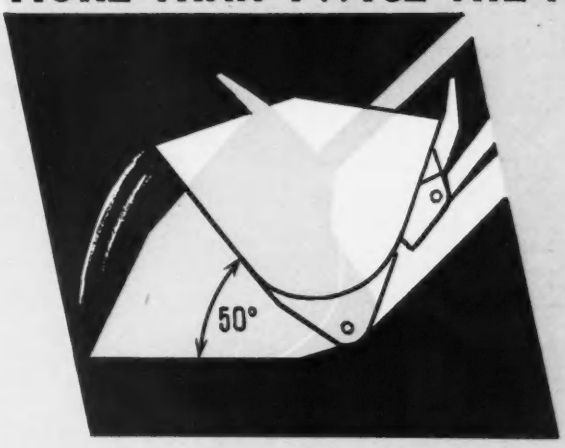

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Two Coles Diesel-Electric Cranes, working simultaneously, were used to lift this 18,000 gallon capacity Water Spheroid weighing almost 20 tons and position it accurately on three columns. As the road was closed during the operation, erection time was of the utmost importance and, although the time allocated was two days, the job was completed in HALF that time, thanks to the SPEED and PRECISION of Coles Cranes.

Acknowledgment to
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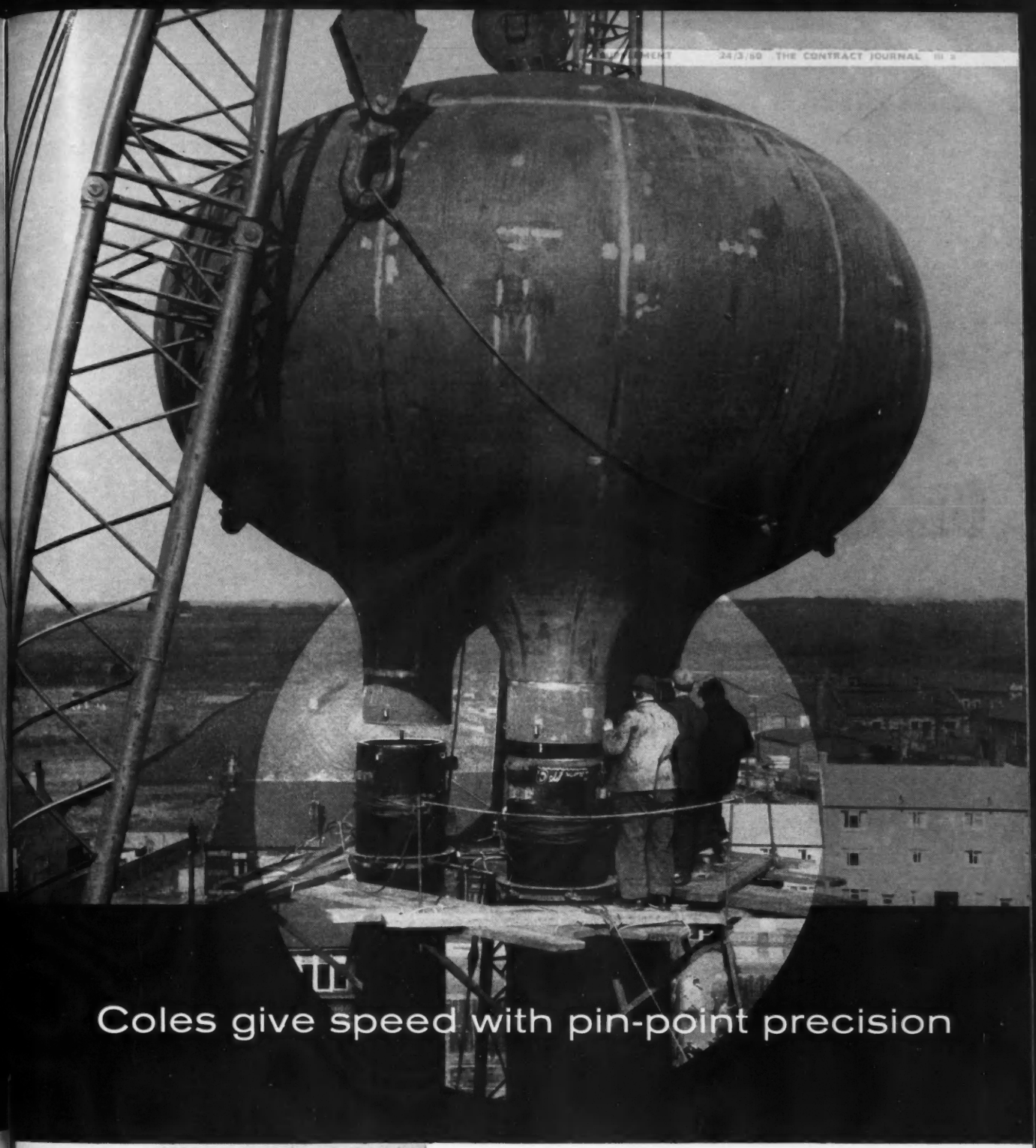

COLES* CRANES

THE NAME THAT CARRIES WEIGHT

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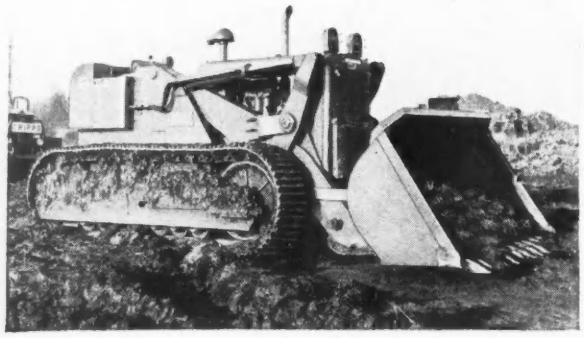

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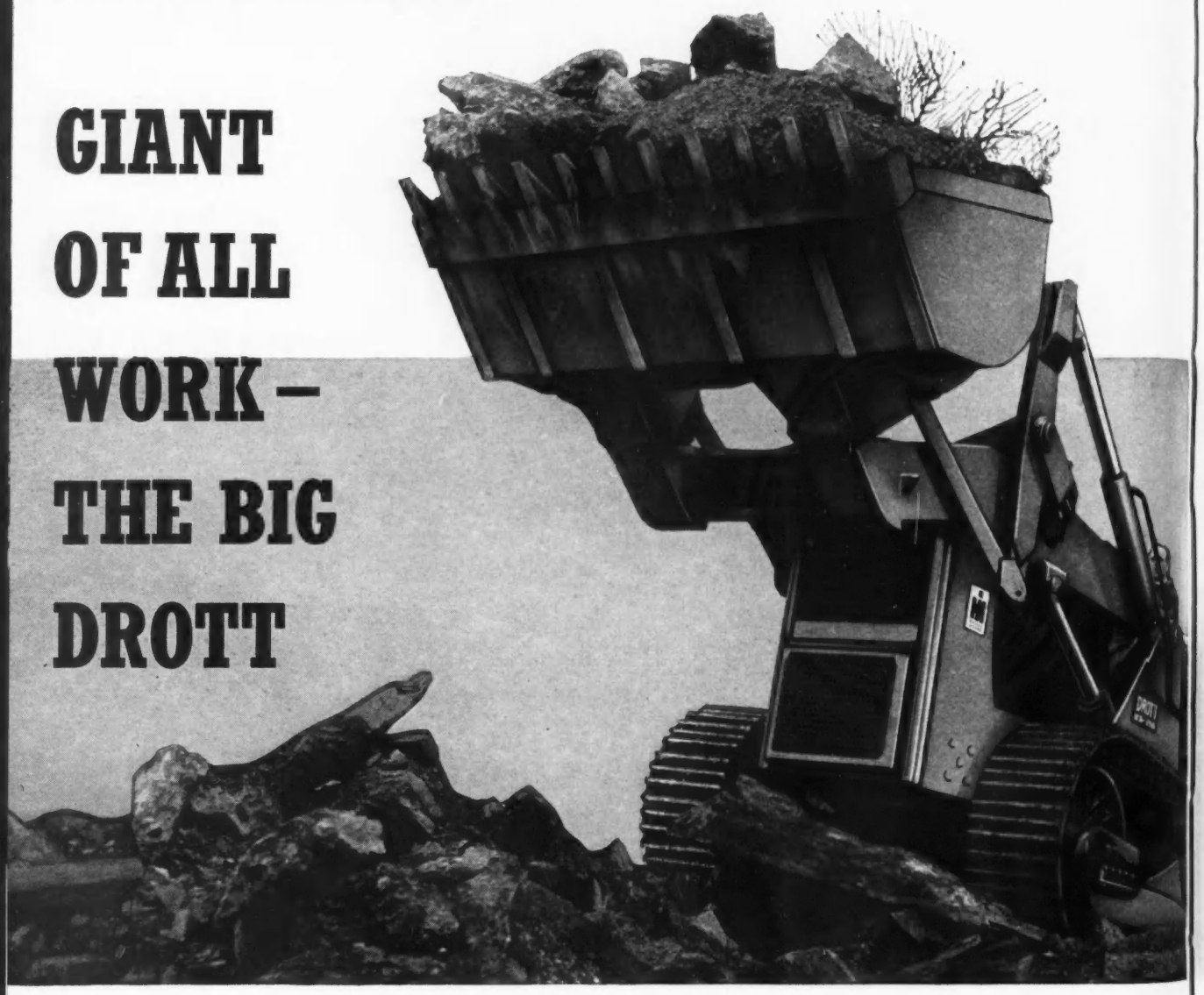

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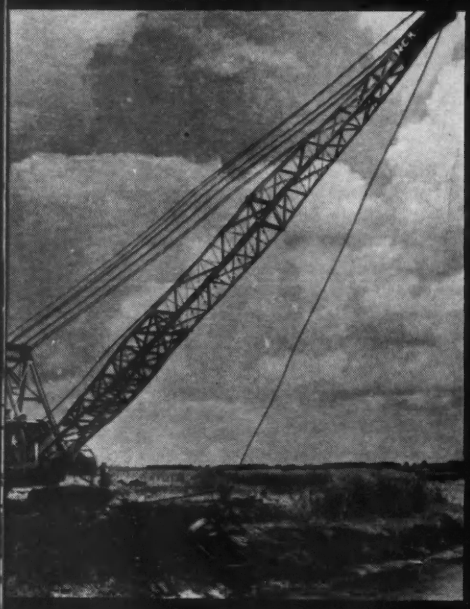

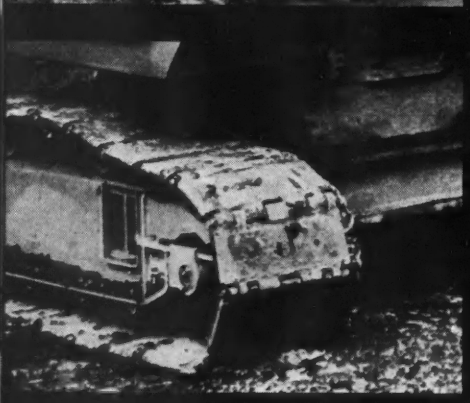

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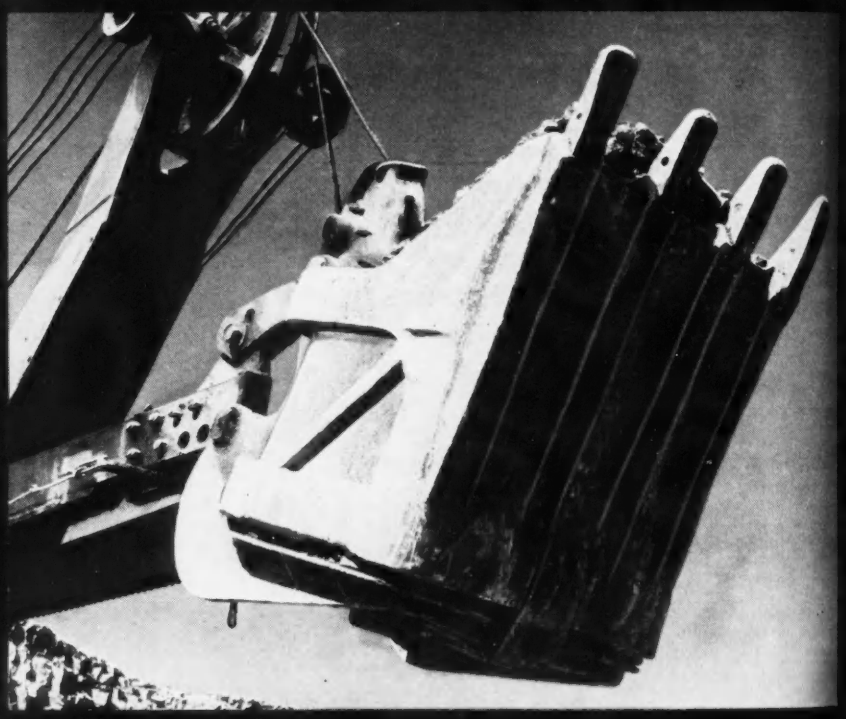

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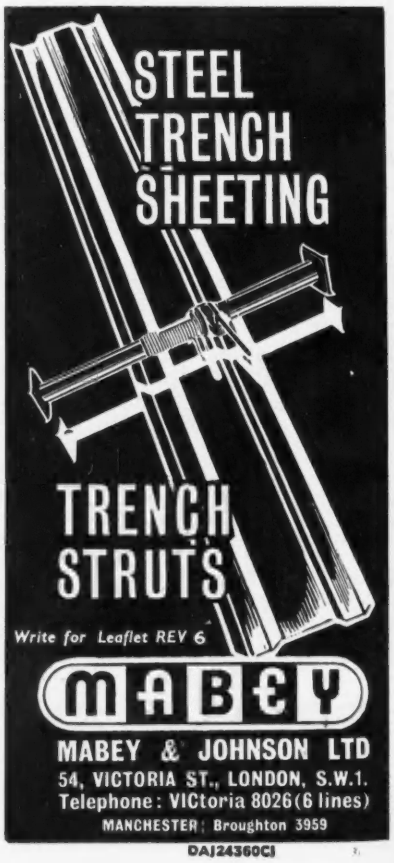

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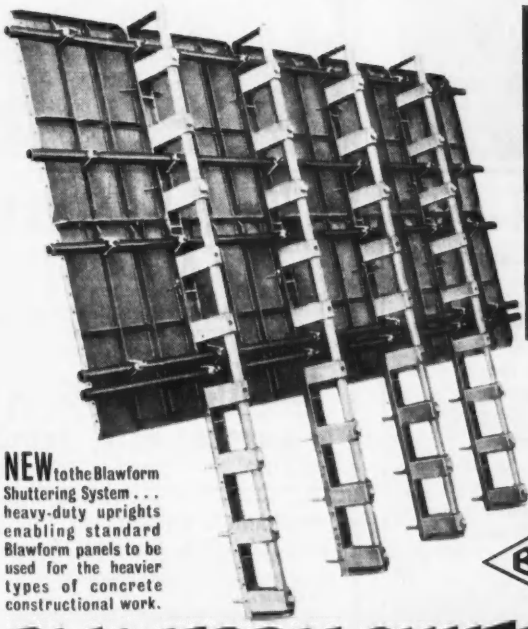

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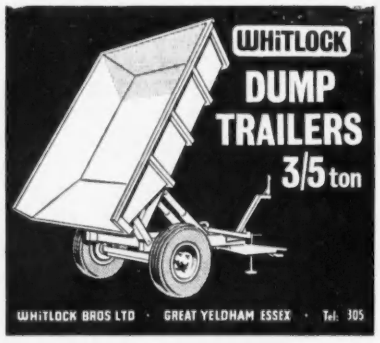

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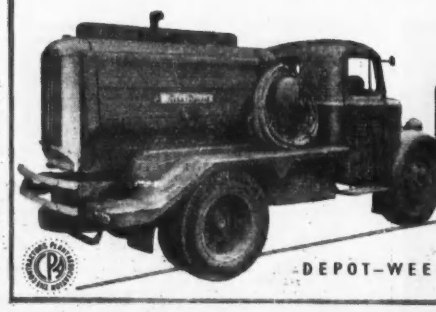
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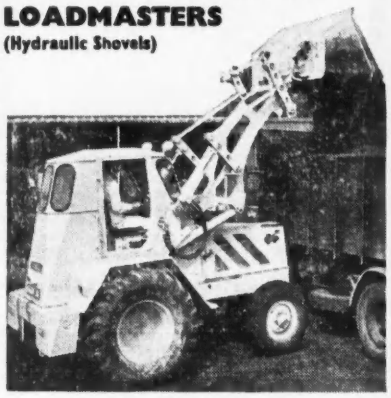
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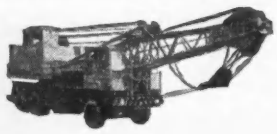
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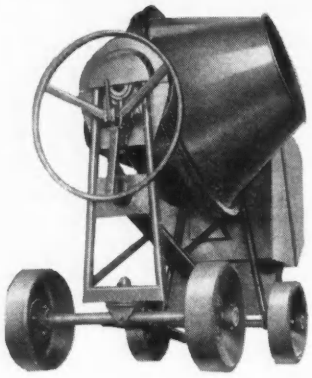
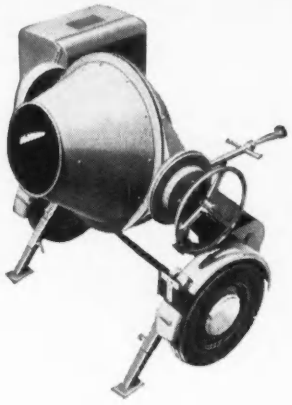
CH37

Winget 2T Mixer (3/2 cu. ft. capacity)



Winget 3½T Mixer (5/3½ cu. ft. capacity)



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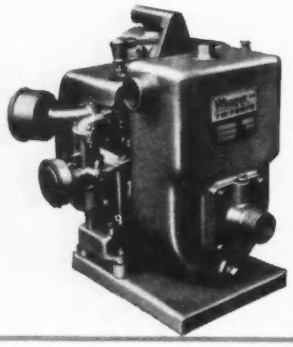

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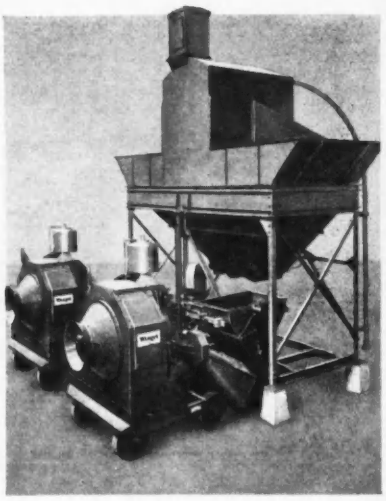

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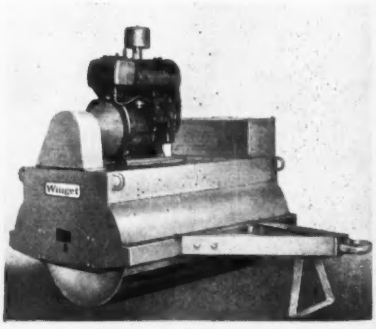
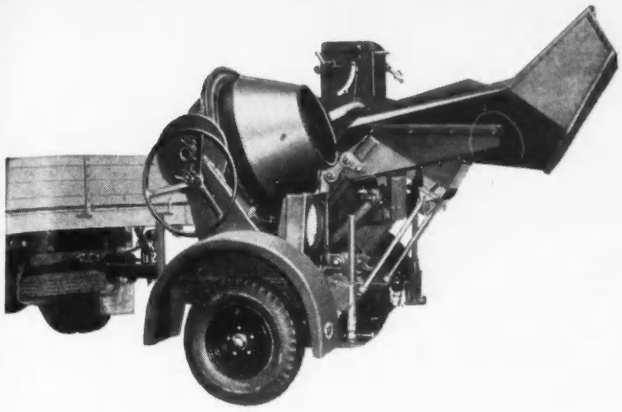
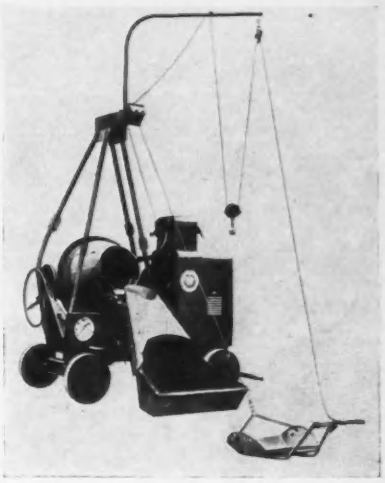


Winget 'Vibrocon' CK 10 Vibrating Road Roller



Winget 7THH Trailer Mixer with hydraulic hopper operation. Fitted with Batch Weigher

Winget 7THH Mixer with hydraulic hopper operation (10/7 cu. ft. capacity). Fitted with Batch Weigher and Drag Feeder



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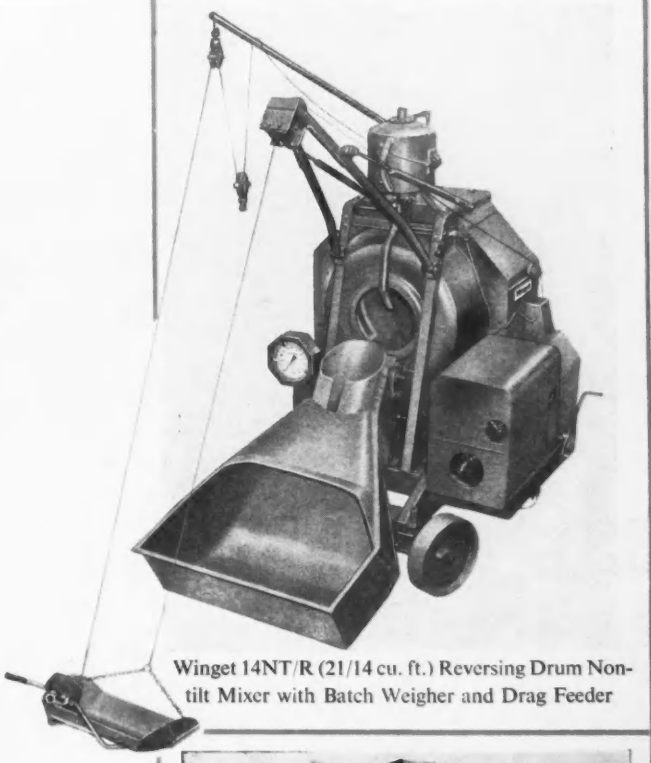

Winget 14NT/R (21/14 cu. ft.) Reversing Drum Non-tilt Mixer with Batch Weigher and Drag Feeder

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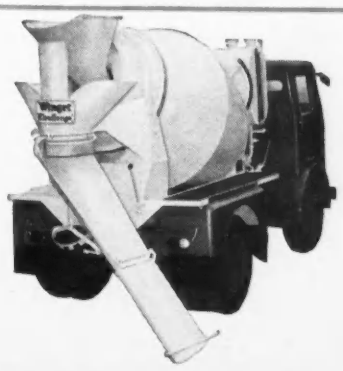

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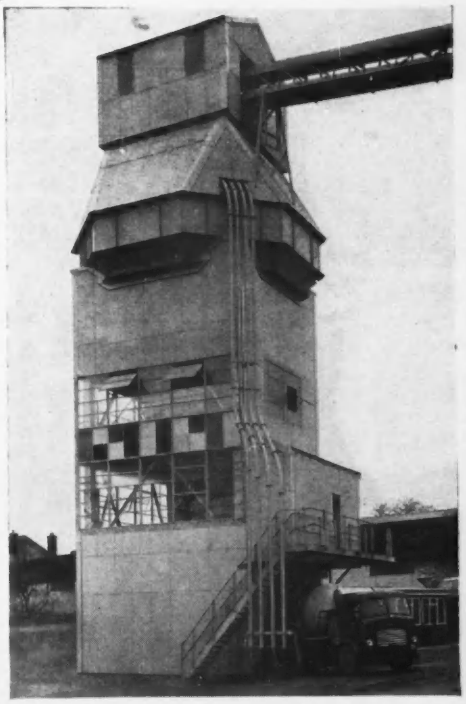

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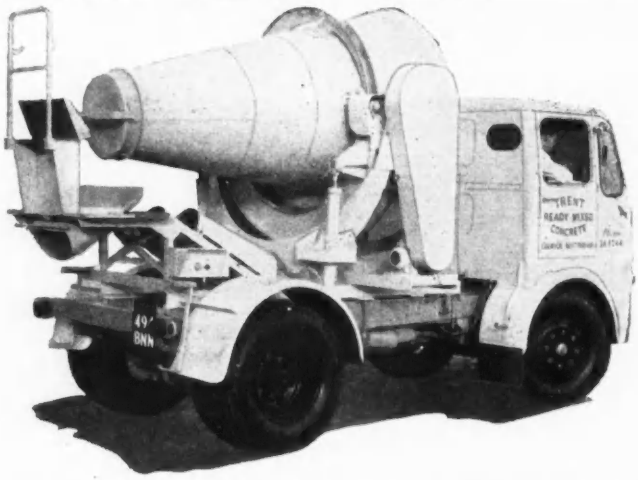

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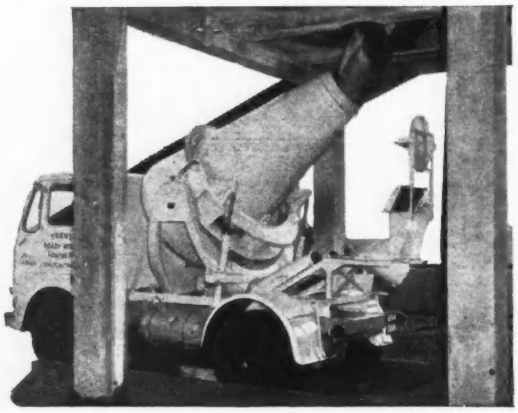

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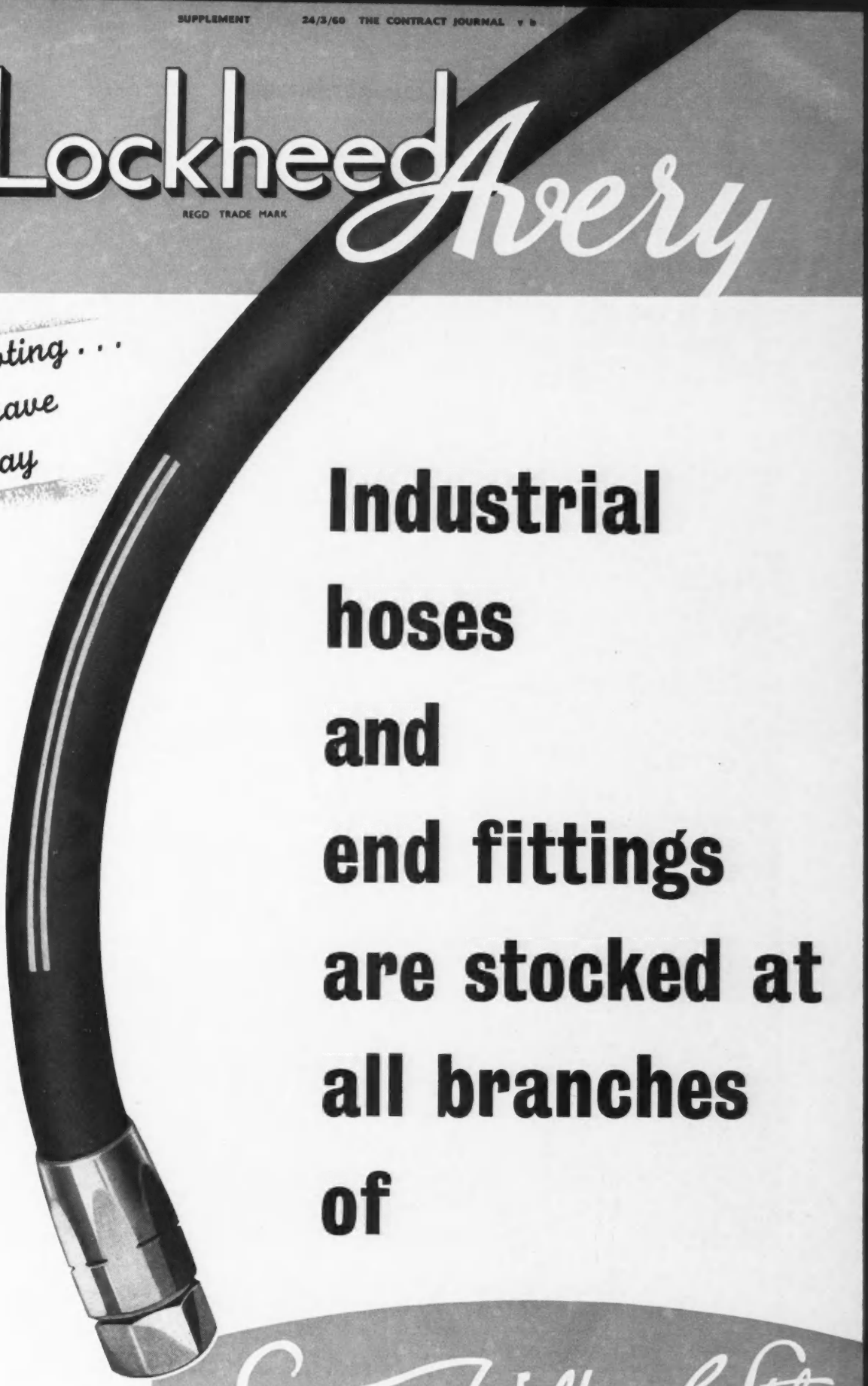

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★ *Further Classified Plant Advertisements on pages 1569-1576*

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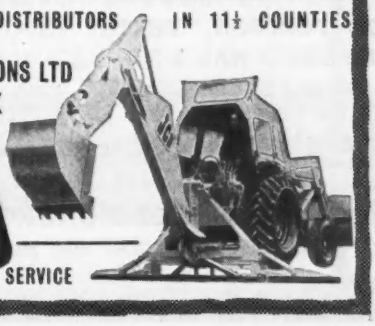

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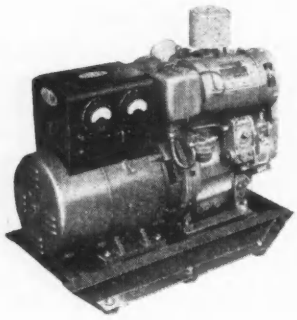

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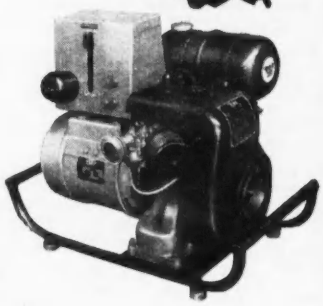

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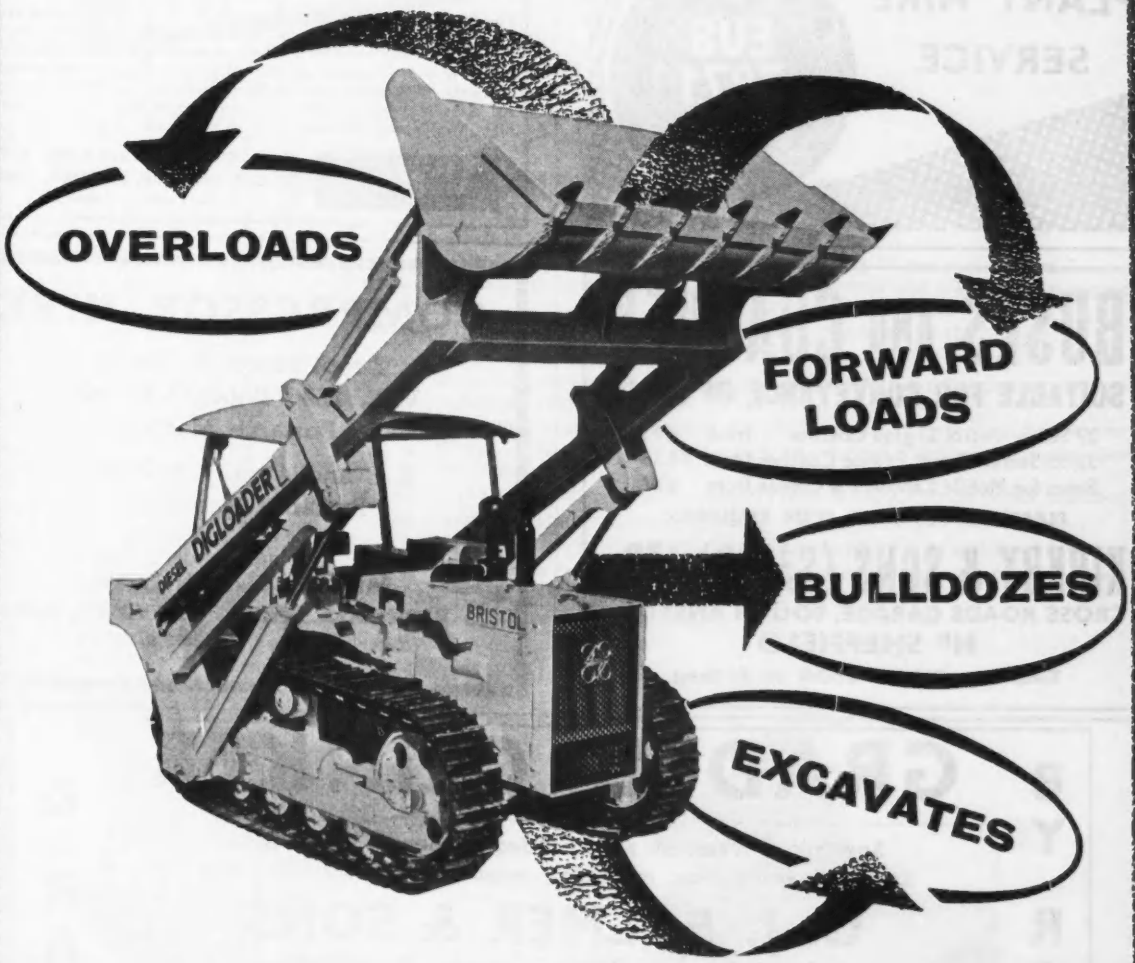

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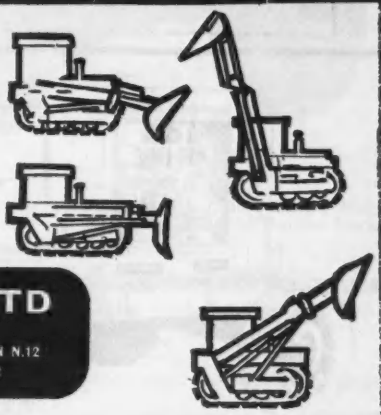

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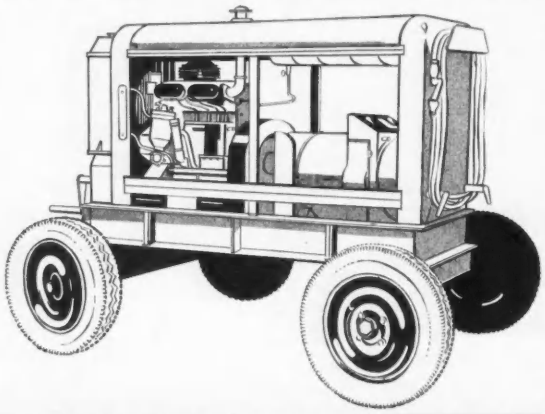
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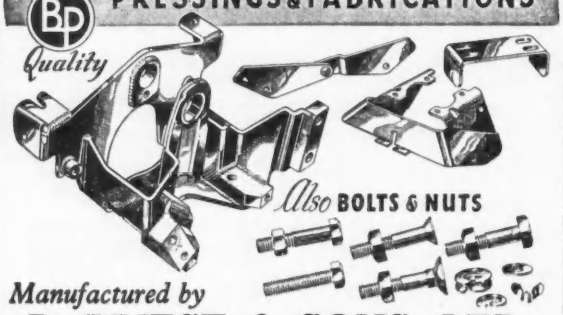

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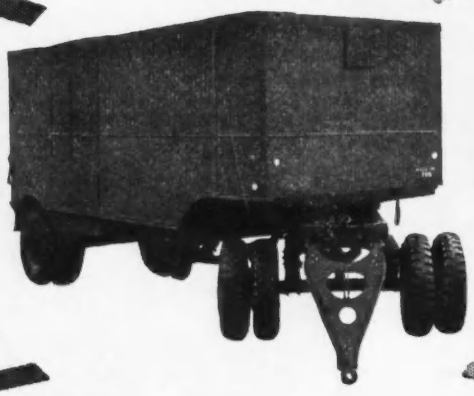

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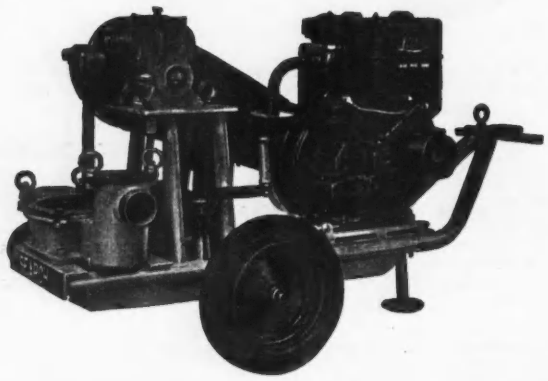

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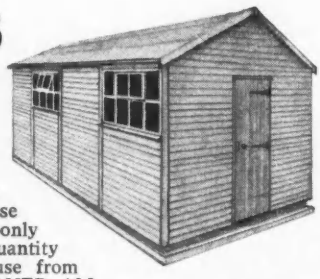

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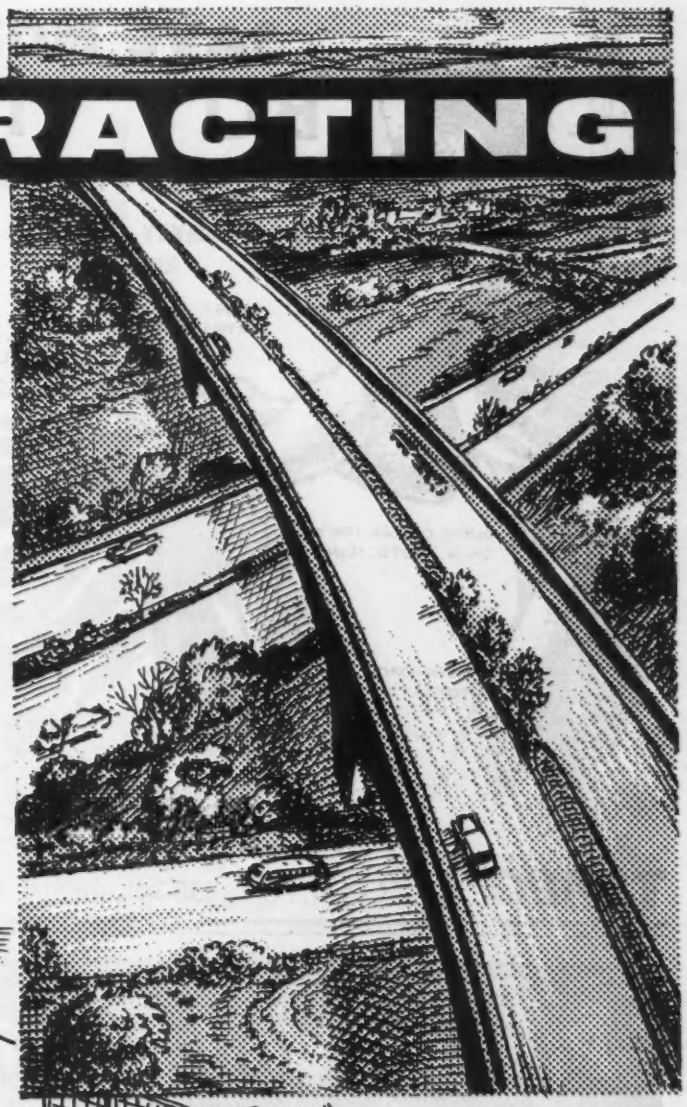

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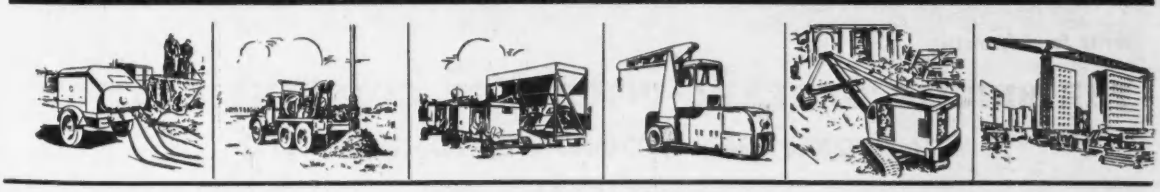

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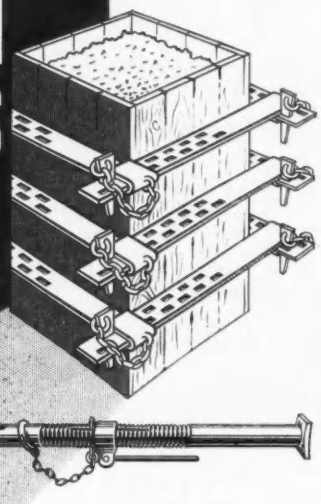

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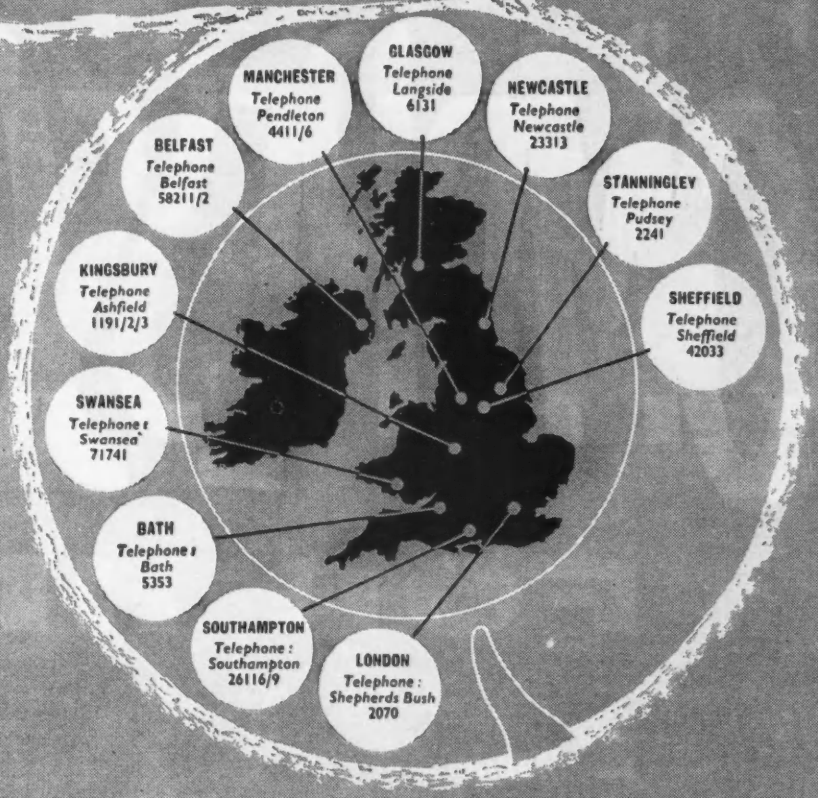

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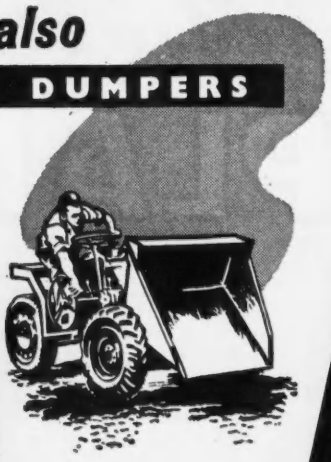

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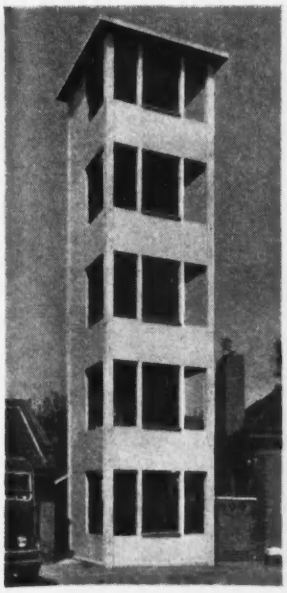

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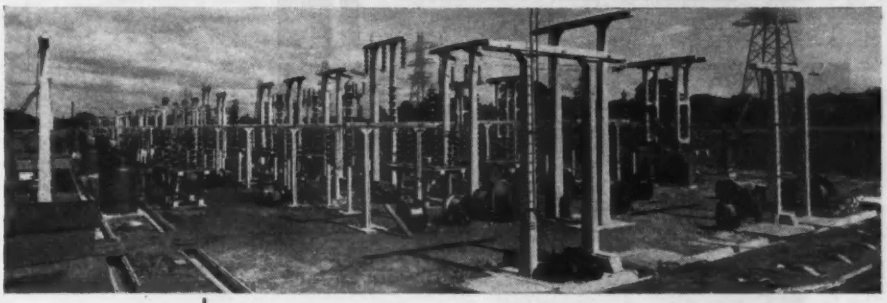
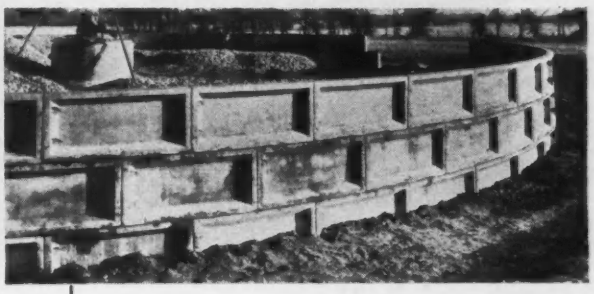


Croft Precast Concrete Drill and Hose Towers (Photograph by courtesy of Birmingham Corporation Fire Service and "Birmingham Post").

Croft Precast Granite Concrete Electrical Structures at the Penn 132 K.V. sub-station. Authority: Central Electricity Generating Board.



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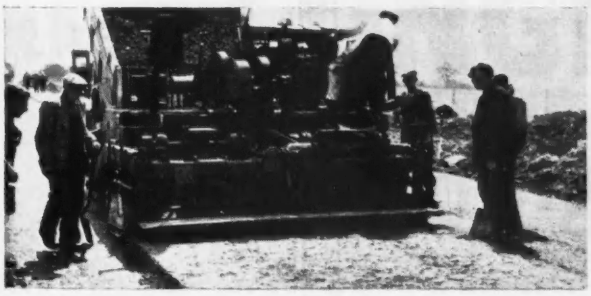

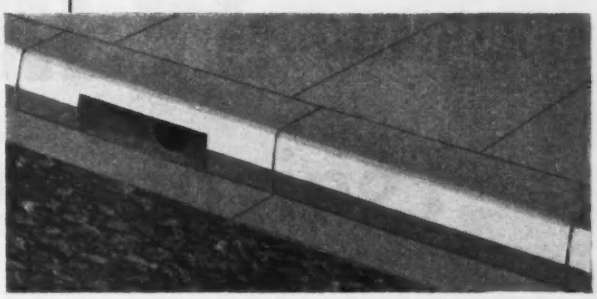

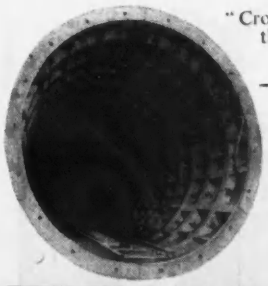

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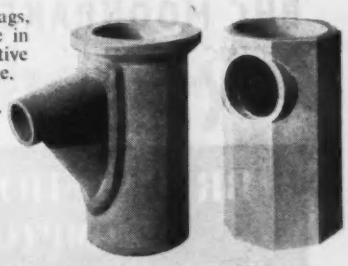

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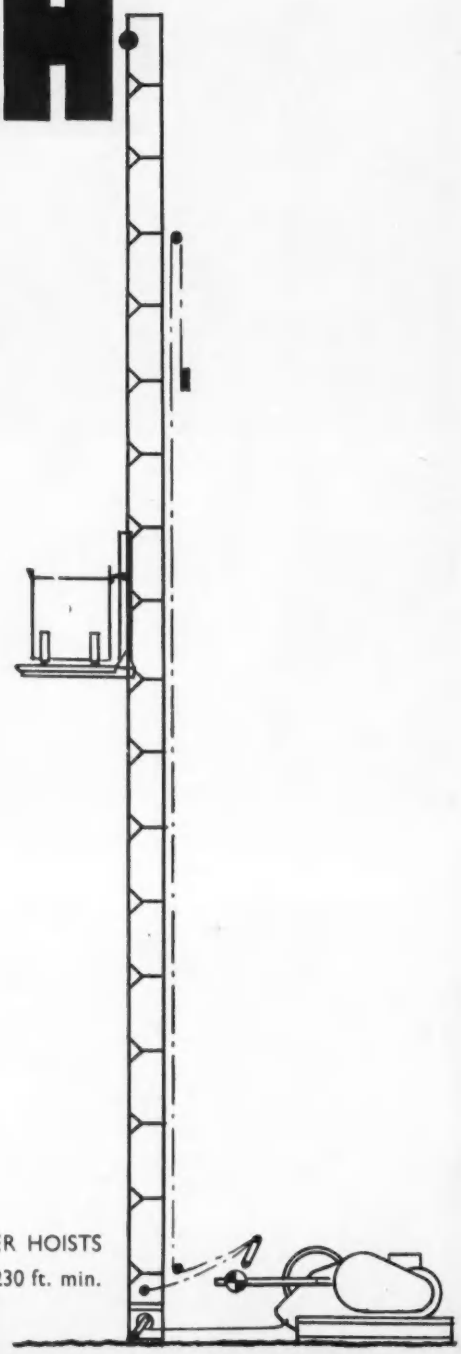

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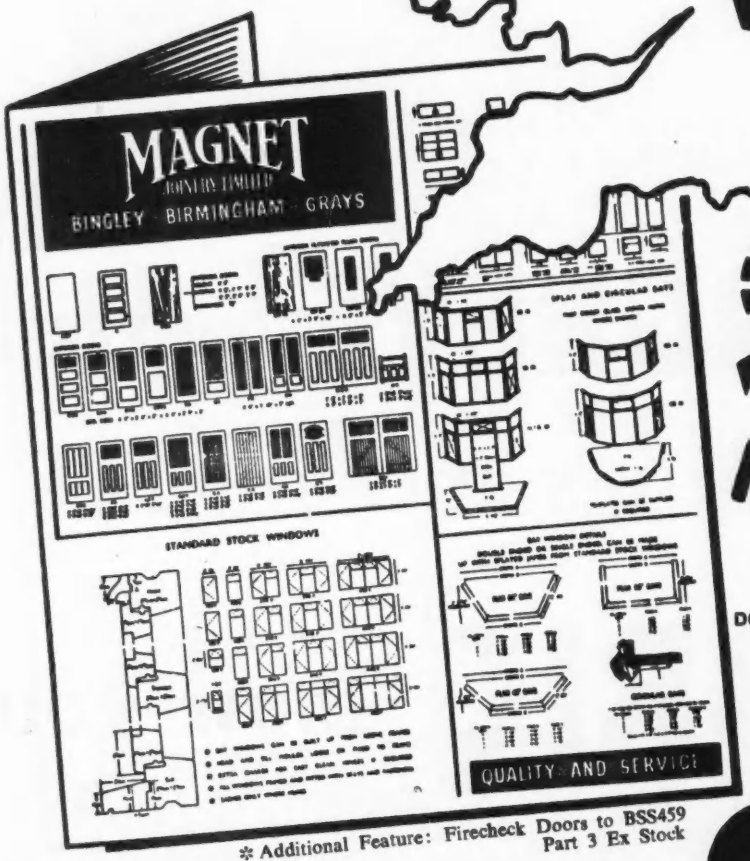

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CONTRACTS

BOROUGH OF NEWCASTLE-UNDER-LYME.

PRIVATE STREET WORKS ACT, 1892.

TENDERS are invited for the MAKING-UP of the FOLLOWING STREETS:—

(1) Greenbank Road, May Bank.

The Work comprising of approx. 2,100 sq. yd. of Carriageway Excavation, Foundation, 3,900 sq. yd. of two-coated Macadam, the Laying of 480 lin. yd. of New or Existing Kerb and other ancillary Works.

(2) Templar Terrace (part), Porthill (Sparrow Terrace to Heaton Terrace).

The Work comprising of approx. 400 sq. yd. of Carriageway Excavation, Foundation, 680 sq. yd. of Two-coated Macadam, the Laying of 130 lin. yd. of New Kerb and other ancillary Works.

(3) Templar Terrace (part), Porthill (Heaton Terrace to Bradwell Lane).

The Work comprising of approx. 893 sq. yd. of Carriageway Excavation, Foundation, 1,467 sq. yd. of Two-coated Macadam, the Laying of 280 lin. yd. of New or Existing Kerb and other ancillary Works. The Renewal of 80 lin. yd. of 9in. Sewer and Two Manholes.

Plans may be inspected and Tender documents obtained at the office of the Borough Engineer and Surveyor, Lancaster Building, High Street, Newcastle, Staffs.

Tender Forms, in duplicate, and Bills of Quantities must be returned to me not later than 12 Noon on FRIDAY, 8th April, 1960, in a plain sealed envelope endorsed "Tender—Private Street Works."

C. J. MORTON,
Town Clerk.

District Bank House,
High Street,
Newcastle,
Staffs.

BOROUGH OF WIDNES.

CONTRACT NO. 380.

DITCHFIELD ROAD LIGHT INDUSTRIAL ESTATE—ROADS AND SEWERS.

PORTION 1.

TENDERS are invited for the ABOVE CONTRACT, comprising approx. 4,130 sq. yd. of Flexible Carriageway Construction; 950 lin. yd. Precast Concrete Kerbs and Channels; 460yd. of 9in. dia. S.G.W. Sewer; 130yd. of 12in. Concrete Sewer; 230yd. of 15in. Concrete Sewer; 105yd. of 18in. Concrete Sewer, and ancillary works.

Specifications, Bills of Quantities and Form of Tender to be obtained from the Borough Engineer, Town Hall, Widnes, on payment of a deposit of £2 2s., refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelope provided, to be returned not later than 12 Noon on THURSDAY, 7th April, 1960.

FRANK HOWARTH,
Town Clerk.

Town Hall,
Widnes.
March, 1960.

CITY OF WINCHESTER.

WINNALL INDUSTRIAL ESTATE.

TENDERS are invited for the EXTENSION of ROADS and SEWERS on the Winnall Industrial Estate. The work involved includes 251 lin. yd. Concrete Kerb, the Construction of 869 sq. yd. Bituminous Macadam Carriageways on Hardcore Foundations, 2,702 sq. yd. Bituminous Macadam Surfacing on existing foundations, and the Construction of 226 lin. yd. 9in. Sewers.

Copies of Secification, Bill of Quantities and Form of Tender may be obtained on application to the City Engineer, Guildhall, Winchester, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender and return of the documents.

Tenders, enclosed in plain sealed envelope endorsed "Winnall Industrial Estate Extension," should reach the undersigned not later than First Post on MONDAY, 4th April, 1960.

R. H. McCALL,
Town Clerk.

Guildhall,
Winchester.
March, 1960.

THAME URBAN DISTRICT COUNCIL.

WATER SUPPLY—CONTRACT NO. 10.

The Thame Urban District Council is prepared to receive TENDERS for the LAYING of approx. 4,600yd. of Spun-iron Pipes varying from 12in. to 3in. dia., and all ancillary works, all in accordance with the Specification and Drawings prepared by the Engineers, MESSRS. JOHN TAYLOR AND SONS, Artillery House, Artillery Row, Westminster, S.W.1.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Offices of the Engineers upon payment of £5 (cheque only), made payable to the Urban District Council, and which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Drawings may be seen at the Offices of the Engineers or at the Town Hall, or prints may be purchased from the Engineers on application.

Tenders, in plain sealed envelopes endorsed "Tender—Water Supply Contract No. 10," but bearing no distinguishing mark indicating the sender, must be delivered at my Office not later than the First Post on MONDAY, 18th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

(Signed) H. A. HAMECHER,
Clerk of the Council.

Town Hall,
Thame, Oxon.

WELTON RURAL DISTRICT COUNCIL.

BUNKERS HILL AND DISTRICT SEWERAGE SCHEME.

PHASE III—CONTRACT NO. 5.

WRAGBY ROAD EAST AND HAWTHORN ROAD.

TENDERS are invited for the CONSTRUCTION of approx. 4,300 lin. yd. of 6in. dia. CONCRETE PIPE SEWERS, together with Manholes, etc., in the Welton Rural District Council of Lincolnshire.

Contractors wishing to tender should apply for the documents and Drawings to the Council's Consulting Engineers, JOHN H. HAISTE AND PARTNERS, Belmont House, 20 Wood Lane, Headingley, Leeds, 6, enclosing a deposit cheque value Three Guineas, made payable to the Welton R.D.C., such deposit to be refunded upon receipt of a bona-fide Tender and the return of all the documents and Drawings.

Tenders, with the Bills of Quantities priced in ink, are to be submitted to the undersigned not later than 12 Noon on the 18th APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

L. H. KING,
Clerk of the Council.

CONTRACTS

ADMINISTRATIVE COUNTY OF LEICESTER.

The Highways Committee invites TENDERS for the SUPPLY of TWO NEW FERGUSON FE35 TRACTORS, two used Ferguson TE20 Tractors to be taken in part exchange.

Further details and Forms of Tender may be obtained from the County Engineer and Surveyor, County Offices, Grey Friars, Leicester.

Tenders should be submitted on or before the 7th APRIL, 1960.

JOHN A. CHATTERTON,
Clerk of the County Council.

Grey Friars,
Leicester.

CHESHAM URBAN DISTRICT COUNCIL.

WATER MAIN FROM TAYLOR'S FARM ALLOTMENTS TO CODMORE CROSS, CHESHAM.

FIXED-PRICE TENDERS are invited for the PROVISION, LAYING and JOINTING of approx. 530 lin. yd. of 6in. dia. WATER MAIN in Flexible Jointed Spun-iron Pipes and Specials, from Taylor's Farm Allotments to Codmore Cross, Chesham.

Copies of the Specification, Bill of Quantities, Conditions of Contract and Form of Tender may be obtained from the Engineer and Surveyor, Council Offices, Chesham.

Sealed Tenders, in an envelope provided, endorsed "Tender for 6in. dia. Water Main," and bearing no indication of the tenderer, must be delivered to the Clerk to the Council, Council Offices, Chesham, Bucks., not later than Noon on FRIDAY, 8th April, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. I. NASH,
Clerk of the Council.

Council Offices,
Chesham, Bucks.

RAMSEY URBAN DISTRICT COUNCIL.

SLADE CULVERT.

TENDERS are invited from experienced contractors for the CONSTRUCTION of a STORMWATER CULVERT at RAMSEY.

The work will include the Laying of about 700yd. of 42in. and 36in. dia. Concrete Pipes and the Construction of Manholes and Out all Spillway.

Drawings may be seen at the Offices of the Council's Consulting Engineers, MESSRS. PICK, EVERARD, KEAY AND GIMSON, 6 Millstone Lane, Leicester, from whom a Specification and Bill of Quantities may be obtained on payment of a deposit of Five Guineas, which will be refunded on receipt of a bona-fide Tender and the return to the Engineers of the documents supplied.

Tenders, on the loose form, and in the envelope provided, are to be delivered to the undersigned not later than 10 o'clock in the Forenoon of FRIDAY, the 8th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ARTHUR GILDING,
Clerk of the Council.

Council Offices,
3 Bury Road,
Ramsey, Hunts.
11th March, 1960.

WAYLAND RURAL DISTRICT COUNCIL.

WATTON SEWERAGE.

CONTRACT NO. 3.

NEATON AND NORWICH ROAD.

TENDERS are invited, on a Fixed-price Basis, for the WORK REQUIRED in the CONSTRUCTION of approx. 1,200yd. of 6in. GLAZEDWARE SEWERS and 1,400yd. of 4in. CAST-IRON RISING MAIN, together with Manholes, an Ejector Station, and other works incidental thereto, in the Parish of WATTON, for the Wayland Rural District Council, in the County of Norfolk.

Copies of the Specification and Drawings may be seen by intending contractors at the Council Offices, Attleborough, Norfolk, or at the Offices of the Engineers, MESSRS. A. P. I. COTTERELL AND SON, at 54 Victoria Street, Westminster, London, S.W.1, on or after the 21st MARCH, 1960, during the usual office hours. A copy of the Specification, Bills of Quantities and Form of Tender will be forwarded by the Engineers to intending contractors on payment by them of the sum of Three Guineas, which will be returned on receipt of a bona-fide Tender and all other documents supplied.

Tenders, in plain sealed envelopes, on the forms provided, must be delivered, accompanied by the Priced Bill of Quantities (in separate sealed packets), to the undersigned and endorsed "Watton Sewerage—Contract No. 3"), not later than 10 a.m. on the 21st APRIL, 1960. The Specification is to be returned to the Engineer at the same time.

Contractors will be required to provide securities for the performance of the Contract.

The Council do not undertake to accept the lowest or any Tender.

L. G. FRANCIS,
Clerk of the Council.

Council Offices,
Attleborough, Norfolk.
9th March, 1960.

NEWCASTLE-UNDER-LYME RURAL DISTRICT COUNCIL.

MADELEY (STAFFS.) SEWERAGE AND SEWAGE DISPOSAL.

CONTRACT NO. 2.

The Council invite TENDERS for the CONSTRUCTION of about 8,000 lin. yd. of SPUN-IRON and GLAZED STONEWARE PIPE SEWERS, 6in., 9in., 12in. and 18in. in dia., with Manholes, Storm Water Overflows, about 750 lin. yd. of Iron Rising Main 5in. in dia., Pumping Station, and incidental works, in accordance with the Drawings, Specification and Bills of Quantities prepared by the Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2.

The Drawings may be seen at, and the General Conditions of Contract, Specification, Bills of Quantities and Form o Tender may be obtained from, the Offices of the undersigned, or of the Engineers, on or after the 28th MARCH, 1960, on payment of a deposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied and in the endorsed envelope provided, are to be delivered to me at the address stated below not later than Noon on the 28th APRIL, 1960.

The Council do not undertake to accept the lowest or any Tender.

F. W. RAMM,
Clerk of the Council.

Sidmouth Avenue,
The Brampton,
Newcastle-under-Lyme,
Staffs.
10th March, 1960.

CONTRACTS

BOROUGH OF WARWICK.

PERCY ESTATE CENTRAL AREA—SITE "A."

ERECTION OF HOUSES AND BUNGALOWS.

TENDERS are invited for the CONSTRUCTION of the FOLLOWING:—

19 Three-bedroom Two-storey Units.
12 One-storey Bedsittingroom Units.
5 One-storey One-bedroom Units.
Laundry Block, Access Road and Nine Brick Garages.

Copies of the Bills of Quantities, General Conditions and Form of Tender will be available as from the 22nd March, 1960, which may be obtained from the undersigned on payment of £2 2s. deposit, which will be refunded upon receipt of a bona-fide Tender. Drawings may be seen at this Office during normal working hours.

Tenders, in plain sealed envelopes, endorsed "Percy Estate Central Area—Site 'A'," must reach the undersigned not later than First Post on FRIDAY, 15th April, 1960.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.

23 Jury Street,
Warwick.
1st March, 1960.

CITY OF WORCESTER.

ERECTION OF 18 DWELLINGS—ST. CATHERINE'S VALE REDEVELOPMENT AREA.

TENDERS are invited for the ERECTION and COMPLETION of ONE PAIR of HOUSES, Type W.6, and TWO BLOCKS o. FOUR 2-STOREY FLATS, Type W.10, with Link Staircase, in traditional construction, together with External Services, on a Redevelopment Site.

Documents obtainable from City Engineer and Surveyor, 22 Bridge Street, Worcester, on deposit of Three Guineas (cheques payable to Worcester Corporation), which will be refunded after receipt of a bona-fide Tender and the return of Tender documents.

Tenders to be Posted to the undersigned to arrive not later than TUESDAY, 19th April, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

CITY OF CAMBRIDGE.

ERECTION OF INDOOR SWIMMING POOL, DONKEY'S COMMON, CAMBRIDGE.

The City Council proposes to APPOINT a GENERAL CONTRACTOR by SELECTIVE TENDERING and invites suitable building firms to submit their names for inclusion on a list from which 10 contractors will be selected and invited to TENDER. Before final selection is made, all applicants will be asked to supply details of their organisations and experience.

The Code of Procedure for Selective Tendering of the N.J.C.C. of Architects, Quantity Surveyors and Builders will apply where appropriate.

The buildings consist of: (1) Pool Hall, 180ft. x 83ft. x 30ft. high, containing two pools (110ft. x 42ft. x 12ft. 6in deep and 36ft. x 20ft. x 3ft. deep); Public Gallery, seating 700 persons; Café and Kitchen; and Basement for Plant. (2) Main Entrance Hall and Changing Room Wings in One Storey, overall area about 9,000 sq. ft. (3) Detached House for Pool Superintendent.

Site Works include the Construction of Roads, Paths, Car Park, Fencing, Drainage, etc.

The Contract involves considerable Excavations and Soil Disposal, Mass and Reinforced Water Retaining Concrete, Steel-framed Superstructure with Brick and Glazed Curtain Wall Claddings and a Variety of Internal Fittings and Finishes, together with Engineering Services.

Documents will be issued on the 8th June, and Tenders (on Fixed and Fluctuating Basis) must be submitted not later than the 7th July. It is expected that work will begin on site by the end of September, 1960, and the Contract period will not exceed two years.

Applications for inclusion on the first list should be made to the City Surveyor, The Guildhall, Cambridge, not later than 10 a.m. on MONDAY, the 4th April, 1960.

The Council does not bind itself to accept any Tender.

A. H. I. SWIFT,
Town Clerk.

The Guildhall,
Cambridge.

ATHERTON URBAN DISTRICT COUNCIL.

GROUP "A" STREET LIGHTING.

TENDERS are invited for the SUPPLY, ERECTION and WIRING of 222 REINFORCED CONCRETE LIGHTING COLUMNS and BRACKETS for GROUP "A" LIGHTING, required to replace redundant steel tramway poles which carry the existing lighting points.

Tender documents are obtainable from the Surveyor, Town Hall, Atherton, at whose office a plan of the scheme can be inspected during normal office hours.

Tenders, in plain sealed envelopes endorsed "Tender for Street Lighting," should be delivered to the undersigned not later than 12 Noon on SATURDAY, 9th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. G. BLAKEBOROUGH,
Clerk of the Council.

Town Hall,
Atherton,
Manchester.

SKIPTON RURAL DISTRICT COUNCIL.

CRACOE, HETTON AND RYLSTONE JOINT SEWERAGE SCHEME.

TENDERS, on a FIXED-PRICE BASIS, are invited from experienced public works contractors for the CONSTRUCTION of approx. 6,360 lin. yd. of 6in. GLAZED WARE SEWERS, 440 lin. yd. of 6in. IRON SEWERS and 93 BRICK MANHOLES, together with a New Sewage Disposal Works, comprising Detritus Tank, Settlement Tanks, Percolating Filters, Storm Water Tanks, Humus Tanks, Sludge Drying Bays and other appurtenant Works.

Conditions of Contract and Plans of the Works may be inspected, and Specification, Bills of Quantities and Form of Tender obtained from, the Engineer and Surveyor at the address below, upon payment of a deposit of Three Guineas, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and on the return of all documents.

Tenders, in plain sealed envelopes endorsed "Cracoe, Hetton and Rylstone Joint Sewerage Scheme," must reach the undersigned not later than First Post on MONDAY, the 11th April, 1960.

E. GILBERT SHARP,
Clerk of the Council.

Council Offices,
Granville Street,
Skipton,
Yorks.
15th March, 1960.

CONTRACTS

BOROUGH OF BILSTON.

RESURFACING OF HIGH STREET, MOXLEY (A.41). AND MILLFIELDS ROAD (A.4039).

TENDERS are invited for HEATING, PLANING and SCARIFYING of EXISTING SURFACE MATERIAL and LAYING of approx. 9,500 sq. yd. of HOT-ROLLED ASPHALT.

Drawings may be inspected at the office of the Borough Surveyor, Municipal Buildings, Hall Street, Bilston, Staffs., from whom Tender documents may be obtained upon payment of a deposit of Two Guineas, which sum will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Contract No. 240—Resurfacing of High Street, Moxley (A.41), and Millfields Road (A.4039)," to be delivered to the undersigned not later than 12 Noon on WEDNESDAY, the 13th April, 1960.

The lowest or any Tender will not be necessarily accepted.

A. M. WILLIAMS,
Town Clerk.

Town Hall,
Bilston,
Staffs.
March, 1960.

CITY OF LEEDS.

HIGHWAYS DEPARTMENT.

The Highways Committee of the Leeds City Council invite TENDERS for:—

(a) Kerbing, Tarmacadam Footpaths and Carriageways, etc., in the following Private Streets—
GREEN LANE (Part Four), COOKRIDGE.
LINGWELL STREET.
QUEENSTHORPE RISE.
WEST FARM AVENUE.

(b) Excavation, Site Clearance, Hardcore, Foundations and Tarmacadam Surface to Carriageways, Kerbing, Asphalt - topped Footpaths and other Works on
BUTCHER HILL (Part) IMPROVEMENT.

Forms of Tender and Bills of Quantities may be obtained upon payment of a deposit of One Guinea, which amount will be returned upon receipt of a bona-fide Tender. Plans, Specifications and Copies of the documents forming the Contract, may be inspected upon application to the Highways Engineer, 155 Kirkstall Road, Leeds, 4.

Tenders will be considered only when submitted sealed in the envelope provided, endorsed "Highways Department—Tender for Contractors Works" and not bearing any name or mark indicating the sender.

Tenders must be delivered at the Town Clerk's Office (Committee Department), Room 57, Civic Hall, Leeds, 1, not later than 10 a.m. on THURSDAY, the 7th April, 1960.

The lowest or any Tender will not necessarily be accepted.

W. J. HISCOCK,
Highways Engineer.

March, 1960.

CITY OF LEEDS.

HIGHWAYS DEPARTMENT.

The Highways Committee of the Leeds City Council invite TENDERS for the SUPPLY of the FOLLOWING during the year commencing 1st July, 1960:—

(1) Concrete Flags, Kerb, Edging and Channel.
(2) Tarred and Bituminous Slag.
(3) Tarred and Bituminous Limestone.
(4) Graded Dense Bitumen Macadam.
(5) Asphalt Macadam.
(6) Cold Asphalt.
(7) Bitumen. } For the manufacture of
(8) Graded Sand. } Asphalt Macadam and
(9) Limestone Filler. } Asphaltic Surfacing Materials.
(10) Chippings for Surface Dressing of Roads.
(11) Broken Limestone.
(12) Refined Tar.
(13) Bitumen for the Surface Dressing of Roads —hot and cold application.
(14) Sand and Gravel for Concreting.
(15) Building Sand for Lime Mortar.
(16) Street Nameplates.
(17) Illuminated Guardposts.
(18) Hire of Road Surfacing and Finishing Machine.
(19) Heating and Planing of Tarmacadam and Asphaltic Road Surfaces.

Forms of Tender, Specification, Conditions of Contract and approximate quantities required may be obtained upon application to the Highways Engineer. Please state the reference number of the Tender form(s) required.

Tenders will be considered only when submitted sealed in the envelope provided, endorsed "Highways Department—Tender for Supplies" and not bearing any name or mark indicating the sender.

Tenders must be delivered at the Town Clerk's Office (Committee Department), Room 57, Civic Hall, Leeds, 1, not later than 10 a.m. on THURSDAY, the 21st April, 1960.

The lowest or any Tender will not necessarily be accepted.

W. J. HISCOCK,
Highways Engineer.

155 Kirkstall Road,
Leeds, 4.
March, 1960.

BEDWORTH URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

SUPPLIES FOR THE YEAR 1ST APRIL, 1960, TO 31ST MARCH, 1961.

TENDERS are invited for the FOLLOWING ITEMS:—

(1) Salt Glazedware Pipes and Oddments.
(2) Broken Granite and Chippings.
(3) Sand, Building and Concreting; Washed Gravel.
(4) Tarred and Bituminous Granite.
(5) Tarred and Bituminous Limestone.
(6) Refilling of "Karrier" Mechanical Sweeper Broom Stocks.
(7) Cast-iron Manhole and Gulley Fittings.
(8) Cement.
(9) Supplying and Laying of White Lines and Road Markings.
(10) Motor Spirit, Derv, Gas Oil, Paraffin Oils and Unleaded Petrol.
(11) Cold Asphalt and Substitute.

Applications for particulars and Forms of Tender, stating schedule(s) required and enclosing foolscap stamped self-addressed envelope, may be sent to the Engineer and Surveyor, Council Offices, High Street, Bedworth.

Tenders are returnable not later than 9 a.m. on THURSDAY, 31st March, 1960.

S. G. DEEMING,
Clerk of the Council.

SIDMOUTH URBAN DISTRICT COUNCIL.

QUOTATIONS are invited for CAST-IRON STREET LIGHTING COLUMNS, approx. 12ft. 6in. in height. Particulars to and further information from the SURVEYOR, Council Offices, Sidmouth, Devon.

CONTRACTS

COUNTY BOROUGH OF BURTON-UPON-TRENT.

FERRY STREET HOUSING SITE—
ROADS AND SEWERS CONTRACT.

The Corporation invite TENDERS for the CONSTRUCTION of ROADS and SEWERS on the ABOVE-MENTIONED SITE. The Works comprise the Construction of approx. 5,300 sq. yd. of Carriageways, together with Paving and Improvement Works to Existing Junctions; also 15in., 12in., 9in. and 6in. dia. Sewers with 10 Concrete Manholes and ancillary Works.

Form of Tender, Bills of Quantities, Conditions and Specification may be obtained, and the Plans inspected, on application to the Borough Surveyor, Town Hall, Burton-upon-Trent.

Tenders and documents, in the envelopes provided, should be delivered to the undersigned not later than 5 p.m. on TUESDAY, 12th April, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

H. T. MEADES,
Town Clerk.

Town Hall,
Burton-upon-Trent.
17th March, 1960.

CHAILEY RURAL DISTRICT COUNCIL.

TENDERS are invited for the CONSTRUCTION of approx. 1,200 lin. yd. of 6in. SEWER, mainly in PITCH FIBRE; the CONSTRUCTION of a PUMPING STATION and SEWAGE DISPOSAL WORKS at PLUMPTON, together with an EJECTOR STATION and the RECONSTRUCTION of the EXISTING WORKS, with ADDITIONAL UNITS at BARCOMBE, and ancillary Work.

Particulars and Specification may be obtained, and Plans inspected at, the offices of the Consulting Engineers, MESSRS. HOWARD HUMPHREYS AND SONS, Victoria Station House, Victoria Street, London, S.W.1, on and from Monday, 28th March, 1960, until Friday, 22nd April, 1960, between 10 a.m. and 4 p.m., upon payment of Three Guineas deposit by cheque, made payable to the Council, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, on the official form, in sealed envelopes endorsed "Main Drainage of Plumpton (C17/12.1) and Reconstruction of Barcombe Sewage Disposal Works (C7/14.1)," by SATURDAY, 30th April, 1960, to CLERK OF THE COUNCIL, Lewes House, Lewes, Sussex.

ELLESMERE RURAL DISTRICT COUNCIL.

WATER SUPPLY TO THE PARISH OF MYDDLE.

CONTRACT NO. 2.

TENDERS are invited for the CONSTRUCTION of about 16,000 lin. yd. of SPUN-IRON WATER MAINS, 6in., 4in. and 3in. in dia.; REINFORCED CONCRETE SERVICE RESERVOIR, BOOSTER STATION and incidental Works in accordance with the Drawings, Specification and Bills of Quantities prepared by the Engineers, A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2.

The Drawings may be seen at, and the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the offices of the undersigned, or of the Engineers, on or after the 25th March, 1960, on payment of a deposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied and in the endorsed envelope provided, are to be delivered to me at my office not later than Noon on the 22nd April, 1960.

The Council does not undertake to accept the lowest or any Tender.

E. G. D. HEALEY,
Clerk of the Rural District Council.

Council Offices,
Ellesmere,
Salop.

TYNE IMPROVEMENT COMMISSION.

REPAIR AND STRENGTHENING OF A REINFORCED CONCRETE QUAY.

TENDERS are invited from experienced contractors for the REPAIR and STRENGTHENING of the TYNE COMMISSION QUAY, ALBERT EDWARD DOCK, North Shields. The Work consists of Repairing by Cement Gunning Defective Reinforced Concrete and Strengthening Reinforced Concrete Crane Beams by Cement Gunning or by the use of Precast Reinforced Concrete Haunch Units.

The Contract documents and Drawings may be inspected at the Chief Engineer's office at the undermentioned address and may be obtained from the undersigned on payment of a deposit of Three Guineas, which will be returned on receipt of a bona-fide Tender, accompanied by the documents and Drawings issued.

Tenders, in the envelope provided with the Tender documents and bearing no name or mark of the sender, must be delivered to the undersigned not later than Noon on MONDAY, 25th April, 1960.

The Commissioners do not bind themselves to accept the lowest or any Tender.

R. N. EGGLETON,
Secretary.

Tyne Improvement Commission,
Bewick Street,
Newcastle upon Tyne, 1.
14th March, 1960.

WUILTH AND DISTRICT WATER BOARD.

WORKS OF WATER SUPPLY.

STAGE THREE.

TENDERS are invited for the CONSTRUCTION of about 54,000 lin. yd. of SPUN-IRON WATER MAINS, 6in., 5in., 4in. and 3in. in dia., and ASBESTOS-CEMENT WATER MAINS, 2in. in dia., with TWO REINFORCED CONCRETE SERVICE RESERVOIRS and BOOSTER STATION, and incidental Works in accordance with the Drawings, Specification and Bills of Quantities prepared by the Engineers, MESSRS. A. H. S. WATERS AND PARTNERS, of 25 Temple Row, Birmingham, 2.

The Drawings may be seen at, and the General Conditions of Contract, Specification, Bills of Quantities and Form of Tender may be obtained from the offices of the undersigned, or of the Engineers, on or after the 6th April, 1960, on payment of a deposit of Five Guineas, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, on the form supplied and in the endorsed envelope provided, are to be delivered to me at my office not later than Noon on the 6th MAY, 1960.

The Board does not undertake to accept the lowest or any Tender.

D. LLEWELYN THOMAS,
Clerk of the Builth
and District Water Board.

Wyeside,
13 Castle Street,
Builth Wells,
Breckonshire.
10th March, 1960.

CONTRACTS

EAST SUSSEX COUNTY COUNCIL.

RE-ADVERTISEMENT.

RECONSTRUCTION OF IDEN LOCK BRIDGE, NEAR RYE.

FIXED-PRICE TENDERS are invited for the WORK comprising the CONSTRUCTION of a BRIDGE over the RIVER ROTHER, of Five Skew Spans of 32ft. and of 26ft. 9in. width, with Composite Prestressed Concrete Deck, Reinforced Concrete Capping Beams and Piling, the Demolition of the existing Derelict Bridge, the Dismantling and Renovation of temporary Bailey Bridge, Construction of Short Approach Carriageways, and miscellaneous works.

Documents and Drawings can be obtained from me, on deposit of a cheque for Five Guineas (made payable to the East Sussex County Council), which will be returned on receipt of a bona-fide Tender and the return of all documents and Drawings.

Tenders, in the envelopes provided, and bearing no mark to indicate the sender, are to be delivered not later than Noon on MONDAY, 25th April, 1960, addressed to the Clerk of the County Council, County Hall, Lewes, Sussex.

The Council does not bind itself to accept the lowest or any Tender.

M. C. LENEY,
County Surveyor.

County Hall,
Lewes, Sussex.

BOROUGH OF LUTON.

PRIVATE STREET WORKS.

TENDERS are invited for the FINAL MAKING-UP of LUCERNE WAY, FALLOWFIELD (part), and MARRIOTT ROAD (part). Total length approx. 300 lin. yd. Work comprises Paving, Tarmacadam Surfacing and Incidental Work.

Documents from Borough Engineer, Town Hall, Luton, on payment of £2 2s. deposit, returnable after receipt of a bona-fide Tender not subsequently withdrawn. Cheques payable to "Luton Corporation." Tenders to TOWN CLERK, Town Hall, Luton, by Noon, 4th APRIL, 1960.

BOROUGH OF BATLEY.

RECONSTRUCTION AND SURFACING OF LIVERPOOL-LEEDS-HULL TRUNK ROAD, A.62.

FROM BROOKROYD LANE TO MILL STREET.

TENDERS are invited from contractors with experience of working in heavily trafficked main roads for the RECONSTRUCTION and SURFACING with HOT ASPHALT and PRECOATED CHIPPINGS of the LIVERPOOL-LEEDS-HULL TRUNK ROAD, A.62, from BROOKROYD LANE to MILL STREET.

Copies of the Conditions of Tender and Contract, Specification and Bill of Quantities, together with Form of Tender, may be obtained from the Borough Engineer, Hanover Street, Batley.

Tenders, together with priced Bill of Quantities and other documents, must be delivered to the undersigned not later than Noon on TUESDAY, 12th April, 1960.

No Tender will be accepted unless it is enclosed in a sealed envelope bearing no name or mark indicating the sender and endorsed "Tender—Trunk Road Reconstruction," in the top left-hand corner.

The Council does not bind itself to accept the lowest or any Tender.

L. O. BOTTOMLEY,
Town Clerk.

Town Hall,
Batley.

BOROUGH OF BRIDPORT.

FULBROOKS LANE HOUSING SITE.

ROADS AND SEWERS.

TENDERS are invited for the CONSTRUCTION of 595 sq. yd. approx. BITUMINOUS MACADAM CARRIAGEWAY, 240 lin. yd. approx. of PRECAST CONCRETE KERBING and CHANNEL, S.W. SEWER and ancillary Works at the ABOVE SITE.

Form of Tender, Specification and Bill of Quantities may be obtained upon application, in writing, together with a returnable deposit of Two Guineas, from the Borough Engineer, Municipal Offices, South Street, Bridport.

Tenders should be returned in a plain sealed envelope endorsed "Fulbrooks—Roads and Sewers," to the undersigned not later than SATURDAY, 23rd April, 1960.

F. C. M. FORWARD,
Town Clerk.

Municipal Offices,
South Street,
Bridport,
Dorset.

HASLEMERE URBAN DISTRICT COUNCIL.

TAR FOR SURFACE DRESSING.

TENDERS are invited for the SUPPLY and APPLICATION of TAR by PRESSURE TANK SPRAYER, amounting to approx. 7,000 gallons, to VARIOUS ROADS within the Urban District.

Details may be obtained from the Engineer and Surveyor at the undermentioned address.

Tenders, in plain sealed envelopes endorsed "Tar," must be delivered to the undersigned not later than SATURDAY, 2nd April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. H. DAVIES,
Clerk of the Council.

Council Offices,
Museum Hill,
Haslemere, Surrey.

HORNCASTLE RURAL DISTRICT COUNCIL.

MAREHAM-LE-FEN SEWERAGE SCHEME.

TENDERS are invited for the CONSTRUCTION of approx. 3,000yd. of 9in. and 6in. dia. SEWERS, MANHOLES, HOUSE CONNECTIONS, TWO PUMPING STATIONS and RISING MAINS, and the CONSTRUCTION of a SEWAGE TREATMENT WORKS at MAREHAM-LE-FEN, in the Horncastle Rural District of Lincolnshire.

Contractors wishing to Tender for this Work should apply to the Council's Consulting Engineers, JOHN H. HAISTE AND PARTNERS, Belmont House, 70 Wood Lane, Headingley, Leeds, 6, enclosing a deposit cheque value Three Guineas, made payable to the Horncastle R.D.C., such deposit to be refunded on receipt of a bona-fide Tender and the return of the documents.

Tenders, with the Bills of Quantities priced in ink, are to be submitted to the undersigned in plain sealed envelopes marked "Sewerage Tender," not later than 12 Noon on the 14th APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

N. G. COLDHAM,
Clerk of the Council.

Council Offices,
6 Conging Street,
Horncastle, Lincs.

CONTRACTS

BOROUGH OF CHELMSFORD.

SURFACING OF KINGS HEAD MEADOW CAR PARK.

SECOND STAGE.

TENDERS are invited for SURFACING WORKS at KINGS HEAD MEADOW CAR PARK, Chelmsford.

The Works consist of Laying by Machine of approx. 440 tons of Bituminous Concrete and other ancillary Work.

Tender documents, which may be obtained from the Borough Engineer and Surveyor, Municipal Offices, Coval Lane, Chelmsford, must be returned to the undersigned not later than 12 Noon on the 12th APRIL, 1960.

B. A. FRANCIS,
Town Clerk.

HASLEMERE URBAN DISTRICT COUNCIL.

GRANITE CHIPPINGS.

The Council invite TENDERS for the SUPPLY of 300 Tons of ¾in. gauge GRANITE CHIPPINGS.

Forms of Tender and General Conditions and Specification may be obtained on application from the Engineer and Surveyor, Council Offices, Museum Hill, Haslemere Surrey.

Tenders, in plain sealed envelopes endorsed "Granite Chippings," must be delivered to the undersigned not later than SATURDAY, 2nd APRIL, 1960. Samples of materials must be sent.

The Council do not bind themselves to accept the lowest or any Tender.

H. J. DAVIES,
Clerk of the Council.

Council Offices,
Museum Hill,
Haslemere, Surrey.

NEWHAVEN URBAN DISTRICT COUNCIL.

APPLICATIONS are invited from builders and contractors wishing to be included in a selected list of contractors to be invited to TENDER for the FOLLOWING WORK in Newhaven:—

(1) Erection of 17 Dwellings and Three Garages on Sites on Meeching Housing Estate.
(2) Erection of 32 Old Persons' Bungalows in Convent Field.
(3) Erection of a Public Convenience, comprising Men's and Women's Lavatories and Store-room, on a site adjoining the West Side Recreation Ground.
(4) Erection of Nine Brick Bus Shelters on various sites in the district.

Documents for the above work will be ready by 4th April, 1960, and applications for inclusion in the list, stating in which work the contractor is interested, should be received by the undersigned not later than Noon on 4th April, 1960.

Outline particulars of this work can be obtained from the Engineer and Surveyor, Council Offices, Newhaven.

Complete Tender documents will be returnable to reach the undersigned by THURSDAY, 28th April, 1960.

N. C. SIMSON,
Clerk of the Council.

Council Offices,
Newhaven.

STARTFORTH RURAL DISTRICT COUNCIL.

BOWES, BOLDRON, ETC., WATER SUPPLY.

CONTRACT A—MAINS, RESERVOIR, ETC.

TENDERS are invited, on a FIXED-PRICE BASIS for the provision of approx. 16,000 lin. yd. of ASBESTOS-CEMENT WATER MAINS (8in., 6in., 4in., 3in. x 2in. dia.), and the CONSTRUCTION of REINFORCED CONCRETE RESERVOIRS of 80,000-gallon and 6,000-gallon capacity.

Specifications and Drawings may be seen at the Council Offices or at the Office of the Consulting Engineers, FAIRBANK AND SON, 62a Bootham, York. Copies of the Specification, Form of Tender and Bill of Quantities may be obtained from the Consulting Engineers on deposit of Five Guineas by cheque made payable to Startforth R.D.C., which will be refunded to contractors who submit a bona-fide Tender not subsequently withdrawn.

Sealed Tenders, in plain envelopes endorsed "Bowes, Boldron, etc., Water Supply—Contract A," must reach the undersigned on or before 12 Noon on the 20th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. E. POOLEY,
Clerk of the Council.

Council Offices,
21 Galgate,
Barnard Castle.
16th March, 1960.

STARTFORTH RURAL DISTRICT COUNCIL.

BOWES, BOLDRON, ETC., WATER SUPPLY.

CONTRACT B—PUMPING PLANT.

TENDERS are invited, on a FIXED-PRICE BASIS, for the INSTALLATION of a SUBMERSIBLE PUMP and MOTOR, duty 3,000 gallons per hour, in an EXISTING BOREHOLE at BOWES, near BARNARD CASTLE, and Sundry Incidental Works.

Specification, Form of Tender, Schedule, etc., may be obtained from the Consulting Engineers, FAIRBANK AND SON, 62a Bootham, York, on application.

Sealed Tenders, in plain envelopes endorsed "Bowes Boldron, etc., Water Supply—Contract B," must reach the undersigned on or before 12 Noon on the 20th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender, nor will they make any allowance for quotations.

A. E. POOLEY,
Clerk of the Council.

Council Offices,
21 Galgate,
Barnard Castle.
16th March, 1960.

CRAWLEY DEVELOPMENT CORPORATION.

TENDERS will shortly be invited from a selected list of contractors for SITE WORKS due to start in June or July, 1960, at FURNACE GREEN NEIGHBOURHOOD, Crawley. The Works consist of:—

(a) Approx. 10,750 sq. yd. of Carriageway (Rolled Concrete Foundation and Bitumen Macadam or Tarmacadam Surface).
(b) Approx. 1,000 lin. yd. of Surface Water Sewers (9in. to 36in. dia.).
(c) Approx. 900 lin. yd. of Foul Sewers (9in. dia.).
(d) A limited amount of ancillary Works.

Contractors interested in tendering are asked to submit particulars of their experience of such works to The Engineer, Crawley Development Corporation, Broadfield, Crawley, Sussex, by 7th APRIL, 1960.

E. E. H. CAGE,
Chief Executive.

CONTRACTS

COUNTY BOROUGH OF WEST HARTLEPOOL.

SUPPLY OF VEHICLES.

(a) MOTOR TOWER WAGON.
(b) 15cwt. VAN.
(c) 15cwt. DUMPERS.

TENDERS are invited for the SUPPLY of the ABOVE VEHICLES.

(a) The Motor Tower Wagon shall comprise a Three- or Four-stage Tower mounted on a suitable chassis (with cab) to extend to a height of not less than 25ft. Elevating gear to be power operated. The chassis is not required to accommodate a workshop compartment and is to be as small as possible compatible with strength and stability. The engine is to be diesel-operated.

(b) The 15cwt. Van is to be of standard design.

(c) The 15cwt. Dumpers (two of which are required) are to be diesel-operated.

Complete Specifications are to be submitted and delivery dates stated.

Tenders, in sealed envelopes endorsed "Vehicles," are to be addressed to the Chairman of the Works Committee, Municipal Buildings, West Hartlepool, and received by 10 a.m. on WEDNESDAY, 6th April, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings,
West Hartlepool.
14th March, 1960.

COUNTY BOROUGH OF WEST HARTLEPOOL.

STREET LIGHTING.

SUPPLY OF TIME SWITCHES.

TENDERS are invited for the SUPPLY of 250 SELF-STARTING SYNCHRONOUS MOTOR-DRIVEN SINGLE-POLE TIME SWITCHES fitted with Solar Dials, arranged to close the contacts at sunset and open them at sunrise, and having an extra pair of hands for switching at intermediate fixed times. Tenders are to include the Provision of Die Cast Cases with internally mounted device for manual operation. The switches should be rated at 20 Amps. and to operate on 200/250-V 50-cycles A.C. supply.

Tenders, in sealed envelope endorsed "Time Switches," stating delivery date, are to be addressed to the Chairman of the Works Committee, Municipal Buildings, West Hartlepool, and received by 10 a.m. on WEDNESDAY, 6th April, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

ERIC J. WAGGOTT,
Town Clerk.

Municipal Buildings,
West Hartlepool.
14th March, 1960.

COUNTY BOROUGH OF DONCASTER.

PROPOSED BRIDGE OVER THE RIVER DON.

CONTRACT NO. 54.

TENDERS are invited for the DESIGN, SUPPLY and ERECTION of PRECAST CONCRETE BEAMS, which make up the ABOVE BRIDGE. The Beams are to be simply supported on 100ft. centres and are to have cantilevered ends of 15ft. 6in. and 13ft. 6in.

Form of Tender, Specification and Bills of Quantities may be obtained on the payment of a deposit of £2 2s., returnable on the receipt of a bona-fide Tender from the Borough Surveyor, 2 Priory Place, Doncaster. Sealed Tenders, endorsed "Supply and Erection of Precast Concrete Beams," to be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 20th April, 1960.

The Council does not bind itself to accept the lowest or any Tender.

H. R. WORMALD,
Town Clerk.

BOROUGH OF HIGH WYCOMBE.

WHITE CLOSE.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of WHITE CLOSE (approx. length 260 lin. yd.). The Works involve the Laying of 6in. and 9in. dia. Surface Water Sewer, Construction of Concrete Carriageway, Tarmacadam Footpaths, etc.

Conditions of Contract and Drawings may be inspected on any day (Saturdays excepted) during normal office hours, and the Specification, Bill of Quantities and Form of Tender may be obtained on application to the undersigned upon the deposit of Two Guineas, which sum will be refunded on receipt of a bona-fide Tender.

Tenders, in a plain sealed envelope endorsed "Tender—White Close," must be delivered to the undersigned not later than Noon on WEDNESDAY, 6th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. PARKINSON,
M.A., A.M.I.C.E.,
Borough Engineer and Surveyor.

Municipal Offices,
High Wycombe.

NEWTOWN AND LLANLLWCHAIARN URBAN DISTRICT COUNCIL.

NEWTOWN SMITHFIELD.

NEW SALE RING AND EXTENSIONS.

FIXED-PRICE TENDERS are invited for the ERECTION of a NEW SALE RING and EXTENSIONS at the SMITHFIELD, NEWTOWN, Montgomeryshire.

Specification and Plan may be obtained at the office of the undersigned on payment of a deposit of £2 2s., returnable on receipt of a bona-fide Tender.

The Council does not bind itself to accept the lowest or any Tender.

Tenders, in plain sealed envelopes endorsed "Tender—Smithfield Ring and Extensions,' should be received by the undersigned on or before 20th APRIL, 1960.

NORMAN MORRIS,
Clerk and Chief Financial Officer.

Town Hall,
Newtown,
Montgomeryshire.
15th March, 1960.

SUNBURY-ON-THAMES URBAN DISTRICT COUNCIL.

LITTLETON VILLAGE SEWER.

TENDERS are invited by 30th APRIL, 1960, for the CONSTRUCTION of approx. 850yd. of 9in. CAST-IRON SEWER, with 6in. Branch Connections, Pumping Station, and approx. 100yd. of 6in. dia. Cast-iron Pumping Main.

Specification, Bills of Quantities and Form of Tender, etc., obtainable from the Engineer and Surveyor, Council Offices, Sunbury-on-Thames.

CONTRACTS

CITY AND COUNTY OF BRISTOL.

NOTICE TO NURSERYMEN AND MARKET GARDENERS.

TENDERS invited for the PREPARATION of SOILING and SEEDING of AMENITY AREAS and GRASS VERGES on the FOLLOWING SITES:—

Contract One—Portway, West Town Lane, Nibley and Dursley Roads, Shirehampton and Henbury Estate, Bristol.
Area approx. 29,768 sq. yd.

Contract Two—Rear of Blocks of Flats—
Bishport Avenue, Hartcliffe.
Deering Close, Lawrence Weston.
Fulford Avenue, Hartcliffe.
Area approx. 6,780 sq. yd.

The contractor may Tender for both or either Contract.

Plans seen and copies of Specifications, Conditions of Contract and Bills of Quantities obtainable at office of City Engineer and Planning Officer, Cabot House, Deanery Road, Bristol, 1.

Tenders, in envelopes provided endorsed "Grass Amenity Areas, Contract One," or "Grass Amenity Areas, Contract Two," as the case may be, but bearing no mark indicating sender, to CITY ENGINEER AND PLANNING OFFICER, by 10 a.m., 4th APRIL.

CITY OF BIRMINGHAM.

TO PUBLIC WORKS CONTRACTORS.

The House Building Committee invite TENDERS on a FIXED-PRICE BASIS for a MEASURE and VALUE CONTRACT for the CONSTRUCTION of ROADS and FOOTWAYS on NAZARETH HOUSE ESTATE, Longbridge.

Copies of the Specification, Bills of Quantities and Form of Tender may be obtained on payment of £2 2s. at the office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Plans for the work can be inspected at Room 339, Civic Centre, Birmingham, 1.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office, Room 8.31, Council House, Birmingham, 1, not later than 12 Noon on WEDNESDAY, 6th April, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Acting Town Clerk.

Council House,
Birmingham, 1.

CITY OF BIRMINGHAM.

TO HEATING CONTRACTORS.

The Children's Committee invite TENDERS on a FIRM-PRICE BASIS for the INSTALLATION of CENTRAL HEATING and HOT WATER SUPPLY SERVICES at COTTAGES 5 and 6 SHENLEY FIELDS COTTAGE HOMES, NORTHFIELD, Birmingham.

General Conditions (which include the Corporation's usual Fair Wages and Conditions of Labour Clause) may be inspected at the Mechanical and Public Lighting Department, 38 Cambridge Street, Birmingham, 1. Copies of the Specification and Plans can be obtained on payment of £2 2s. at the office of SIR HERBERT J. MANZONI, City Engineer and Surveyor, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. The deposit will be returned on receipt of a bona-fide Tender.

Tenders, enclosed in the endorsed envelope provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room 8.79), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, 8th April, 1960, when they will be opened. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Acting Town Clerk.

Council House,
Birmingham, 1.

CHADDERTON URBAN DISTRICT COUNCIL.

PRIVATE STREET WORKS.

TENDERS are invited for the MAKING-UP of PARTS of BROOK STREET (100 lin. yd.), MILNE STREET (60 lin. yd.), and BARDSLEY STREET (28 lin. yd.).

Specifications and Bills of Quantities may be obtained from the Engineer and Surveyor, Town Hall, Chadderton, upon deposit of £1 1s., which will be refunded on receipt of a bona-fide Tender.

Tenders, endorsed "Tender—Private Street Works," must be delivered in a plain sealed envelope to the undersigned by 9th APRIL, 1960.

L. SCOTT,
Clerk of the Council.

Town Hall,
Chadderton.
15th March, 1960.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

FOUL SEWER EXTENSION—SIDCUP BY-PASS.

TENDERS invited for the CONSTRUCTION of 480yd. of 9in. and 4in. SEWER, MANHOLES, etc.

Documents from the Engineer and Surveyor, Manor House, Sidcup, on deposit of £2.

Closing date for Tenders 11th APRIL, 1960.

T. W. FAGG,
Clerk of the Council.

Council Offices,
Sidcup Place,
Sidcup, Kent.

TRENT RIVER BOARD.

RIVER IDLE.

REGRADING STOCKWITH TO MATTERSEY—RECONSTRUCTION OF FOOTBRIDGE AT MISTERTON SOSS.

TENDERS are invited for the CONSTRUCTION of a CONCRETE FOOTBRIDGE over the RIVER IDLE, span 68ft., at the OLD LOCK at MISTERTON SOSS, approx. ½-mile from the village of MISTERTON, LINCOLNSHIRE. In addition, the Contract will include the Demolition of an Old Masonry Wall forming part of the Old Lock, the Deepening of the River Bed and the Partial Renovation of the Remaining Structure Forming the Masonry Abutments to the Old Flood Arches.

The Contract documents are obtainable from the Engineer, Trent River Board, 206 Derby Road, Nottingham, on payment of a deposit of £5 (cheques to be made payable to the Trent River Board), which will be refunded only on receipt of a bona-fide Tender which is not subsequently withdrawn and the return of Contract documents. Applications for documents must be received not later than Noon on the 7th APRIL, 1960.

IAN DRUMMOND,
Clerk of the Board.

CONTRACTS

BOROUGH OF SCARBOROUGH.

ERECTION OF 48 ONE-BEDROOM FLATS, MANHAM HILL, EASTFIELD, SCARBOROUGH.

IN SIX BLOCKS OF EIGHT FLATS EACH (REPETITIVE).

FIXED-PRICE TENDERS are invited for the ABOVE Bills of Quantities, Conditions of Contract and Form of Tender may be obtained from, and Drawings seen on application to the undersigned.

Applications are to be accompanied by a deposit of Two Guineas, which is returnable on receipt of a bona-fide Tender.

Sealed Tender, in the envelope provided, to be delivered to the undersigned, to arrive not later than 9 a.m., 11th APRIL, 1960.

The Corporation does not bind itself to accept the lowest or any Tender. Contractors tendering do so at their own expense.

V. FORSHAW,
Borough and Water Engineer.

Town Hall,
Scarborough.

BOROUGH OF EAST RETFORD.

HALLCROFT ESTATE.

ERECTION OF SIX OLD PEOPLE'S DWELLINGS.

The COUNCIL invite TENDERS for the ERECTION and COMPLETION of THREE PAIRS of SINGLE-STOREY PERMANENT DWELLINGS, the Contract including Paths, Drainage, etc., but excluding Road Works and Sewers.

Contractors wishing to tender should make application to the Town Clerk, Municipal Offices, East Retford, Notts., forwarding a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender, together with all documents issued. Cheques should be made payable to the East Retford Corporation. Forms of Tender, Conditions of Contract, Drawings, Specifications and Bills of Quantities will then be issued by the Council's Architects, MESSRS. VALLANCE WESTWICK AND ASSOCIATES, White Hart Chambers, Mansfield.

Replies to this advertisement must be delivered to the undersigned not later than 12 Noon on 9th APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender. The acceptance of the Tender is subject to the approval of the Ministry of Housing and Local Government.

K. D. HANNA,
Town Clerk.

Municipal Offices,
East Retford, Notts.

WIRRAL URBAN DISTRICT COUNCIL.

HESWALL SEWERAGE SCHEME.

TENDERS are invited for the PROVISION, LAYING and JOINTING of approx. 6,600yd. of CONCRETE TUBE SEWERS, 57in. to 15in. dia. MANHOLES, the CONSTRUCTION of TWO PILED OUTFALL SEWERS together with Storm Overflows, and the CONSTRUCTION of SLUDGE DRYING BEDS and a SLUDGE PUMPING STATION at the site of the EXISTING SEWAGE DISPOSAL WORKS at HESWALL, in the Wirral Urban District of Cheshire.

Contractors wishing to Tender for this Work should apply to the Council's Consulting Engineers, JOHN H. HAISTE AND PARTNERS, Belmont House, 20 Wood Lane, Headingley, Leeds, 6, enclosing a deposit cheque value Three Guineas, made payable to the Wirral U.D.C., such deposit to be refunded on receipt of a bona-fide Tender and the return of the documents.

Tenders, with the Bills of Quantities priced in ink, are to be submitted to the undersigned not later than 12 Noon on the 22nd APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

W. F. ROBERTS,
Clerk of the Council.

Council Offices,
Heswall,
Wirral,
Cheshire.

CHIGWELL URBAN DISTRICT COUNCIL.

TENDERS are invited for RE-FENCING about 748 lin. yd. at VARIOUS SITES in the URBAN DISTRICT with CHAIN LINK FENCING. Tender Forms, Bills of Quantities, Specification and Plans on deposit of £1 1s. (returnable after submission of bona-fide Tender not subsequently withdrawn or return of documents issued), from Engineer and Surveyor (address below, where Conditions of Contract may be inspected). Contract will provide for fair wages clause and Bond. Tenders, sealed in official envelope provided, bearing no mark indicating sender, to CLERK OF THE COUNCIL, Council Offices, Old Station Road, Loughton, Essex, by TUESDAY, 5th April.

TEES VALLEY AND CLEVELAND WATER BOARD.

LARTINGTON RAPID GRAVITY FILTRATION PLANT.

In connection with the CONSTRUCTION of a RAPID GRAVITY FILTRATION PLANT at Lartington, near Barnard Castle, Co. Durham, the Board invites TENDERS for the work scheduled below:

CONTRACT No. 97.—The Provision, Erection and Setting to Work of an Oil-fired Central Heating Plant of approx. Two Million B.T.U./hr. capacity, together with ancillary equipment.

CONTRACT No 100—The Provision, Erection and Setting to Work of an Automatically Operated Stand-by Diesel Engine-driven Alternator of approx. 310-kVA capacity.

Only contractors thoroughly experienced in the design and execution of the work described above should apply; they will be required to furnish details of installations of a similar character which they have previously carried out.

Contractors who wish to tender for either of the above Contracts should make application in writing not later than 10 a.m. on TUESDAY, 5th April, 1960, to T. S. R. WINTER, M.I.C.E., Engineer, New Works, etc., the Tees Valley and Cleveland Water Board, Corporation Road, Middlesbrough, indicating the work in which they are interested, and enclosing a deposit of £5 5s. for each Contract. Cheques should be made payable to the Tees Valley and Cleveland Water Board. The deposit will be returned upon the submission of a bona-fide Tender.

Applicants for Tender documents will be notified of the last date for receipt of Tenders.

The Board invites these Tenders on a Fixed-price Basis, that is to say, without the inclusion of cost variation for labour or materials.

The Board does not bind itself to accept the lowest or any Tender.

E. A. MORRIS,
Clerk of the Board and Chief Executive Officer.

Water Board Offices,
G.P.O. Box No. 60,
Corporation Road,
Middlesbrough.
March, 1960.

CONTRACTS

HERTFORDSHIRE COUNTY COUNCIL.

RECONSTRUCTION OF BRIDGE OVER GRAND JUNCTION CANAL AT WATER LANE, KINGS LANGLEY.

TENDERS are invited for the RECONSTRUCTION and WIDENING of a 25ft. span BRIDGE over the Grand Junction Canal.

The works comprise the Demolition of the existing Bridge and the Construction of a new Bridge in Pre-stressed Concrete. Ancillary Roadworks extend for 150yd. and comprise the Widening and Regrading of the Approach Embankments, Reconstruction of Carriageway in Rolled Lean Mix Concrete, Asphalt Surfacing and Kerbing, and the Construction of a 10ft. span Culvert in Reinforced Concrete.

Tender documents and Drawings may be obtained from the Office of the County Surveyor, County Hall, Hertford, on or after MONDAY, 21st March, 1960.

Tenders, endorsed "Reconstruction of Canal Bridge, Water Lane, Kings Langley," are to be returned to the CLERK OF THE COUNTY COUNCIL not later than WEDNESDAY, 4th May, 1960.

The County Council does not bind itself to accept the lowest or any Tender.

County Hall,
Hertford.

MERIONETH COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

FISHGUARD-BANGOR TRUNK ROAD, A.487.

TENDERS are invited for the CONSTRUCTION of a new THREE-SPAN SKEW BRIDGE to carry the Trunk Road over the AFON DWYRYD at Maentwrog.

The work includes the Construction of Concrete Abutments and Piers, partly masonry faced, together with Wing and Training Walls in Masonry with a Concrete Slab Deck carried by Cased Steel Joists and Tee Beam Construction. The Skew Span is 126ft. approx., and the Contract also includes for Approach Roadworks of 600ft. Foundation work also includes the Driving of 113 tons of Steel Sheet Piling.

Copies of Tender documents may be obtained from the County Surveyor upon payment of a deposit of Ten Guineas, returnable upon receipt of a bona-fide Tender.

Copies of Plans, Bridge Drawings and details may be obtained on payment of a further Five Guineas, which will be refunded on return of the Drawings.

Tenders, in plain sealed envelopes marked "Maentwrog Bridge," are to be received by the CLERK OF THE COUNCIL, County Offices, Penarlag, Dolgellau, by 10 a.m., MONDAY, 11th April, 1960.

BOROUGH OF CROSBY.

CHAFFERS PLAYING FIELDS.

TENDERS are invited for the SUPPLY of MATERIALS and CONSTRUCTION of a 440yd. RUNNING TRACK, together with Various ancillary Works, comprising the Supply and Erection of 380yd. of Wrought-iron Fencing and the Levelling and Seeding of an area of approx. 11,000 sq. yd.

Copies of Specification, Bill of Quantities and Form of Tender may be obtained on application to the Borough Engineer and Surveyor at the address below on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn. Drawings of the Work may be inspected at the Borough Engineer's Office.

Sealed Tenders, marked "Chaffers Playing Fields—Running Track," to be delivered to the undersigned not later than Noon on WEDNESDAY, 20th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

HAROLD O. ROBERTS,
Town Clerk.

Town Hall,
Waterloo,
Liverpool, 22.

BOROUGH OF CHATHAM.

EXTERNAL REDECORATION OF COUNCIL HOUSES, 1960-61 PROGRAMME.

TENDERS are invited for the EXTERNAL REPAINTING of a NUMBER of GROUPS of COUNCIL DWELLINGS, totalling 693 units, together with certain External ancillary Repairs.

Forms of Tender and Specifications will be available on Monday, 28th March, 1960, and may be obtained from MR. J. A. T. RICHARDS, F.I.A.S., M.Inst.H.E., Borough Engineer and Surveyor, on payment of a deposit of £1 1s., which will be refunded upon receipt of a bona-fide Tender.

Tenders, endorsed "Painting of Council Houses," to be delivered to the Town Clerk, Town Hall, Chatham, by Noon on MONDAY, 11th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ROWLAND NEWNES,
Town Clerk.

14th March, 1960.

FRIMLEY AND CAMBERLEY URBAN DISTRICT COUNCIL.

SURFACE DRESSING—CARRIAGEWAYS.

TENDERS are invited for the SURFACE DRESSING of approx. 43,000 sq. yd. of CARRIAGEWAY within the Urban District.

Copies of the Specification, etc., may be obtained from the Engineer and Surveyor, Municipal Buildings, Camberley.

Tenders, in plain sealed envelopes endorsed "Surface Dressing," must be delivered to the undersigned not later than First Post on MONDAY the 11th April, 1960.

The Council does not bind itself to accept the lowest or any Tender.

K. S. HARVEY,
Clerk of the Council.

Municipal Buildings,
Camberley, Surrey.
11th March, 1960.

YEOVIL RURAL DISTRICT COUNCIL.

WATER SUPPLY TO LARKHILL, NEAR YEOVIL.

FIXED-PRICE TENDERS are invited for the LAYING of approx. 2,060yd. of 6in. and 340 yd. of 4in. ASBESTOS-CEMENT WATER MAIN from LUFTON to LARKHILL, near Yeovil.

Plans may be seen at the office of the Engineer, MR. M. DAGGETT, 26 Kingston, Yeovil, from whom tendering documents may be obtained on payment of a deposit of Two Guineas (cheques payable to Yeovil Rural District), which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn and return of all documents supplied.

Tenders, in plain sealed envelopes endorsed "Larkhill Water Main," to reach the undersigned by not later than 7th APRIL, 1960.

The Council does not bind itself to accept the lowest or any Tender.

C. M. BRAMWELL,
Clerk of the Council.

28 Kingston, Yeovil.
16th March, 1960.

CONTRACTS

BOROUGH OF MOSSLEY.

TAR SPRAYING OF DISTRICT ROADS.

TENDERS are invited for the TAR SPRAYING of approx. 10,000 sq. yd. of CARRIAGEWAYS within the Borough.

Copies of the Specification, Conditions of Contract and Form of Tender may be obtained from the Borough Engineer and Surveyor, Town Hall, Mossley, near Manchester.

Tenders, in plain sealed envelopes endorsed "Tar Spraying," must be delivered to the undersigned not later than THURSDAY, the 21st April, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

V. C. PROCTER,
Town Clerk.

38 Manchester Road,
Mossley.

CITY OF MANCHESTER.

TENDERS are invited for the SUPPLY of approx. 2,000 Tons of NATURAL SELF-COLOURED RED IGNEOUS ROCK CHIPPINGS during the period 1st May, 1960, to 31st March, 1961.

Tender Forms, returnable by 10 a.m. on 6th APRIL, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

CITY OF MANCHESTER.

DAVYHULME SEWAGE WORKS EXTENSIONS.

TENDERS invited for the FOLLOWING:

(1) Provision and Erection of Special Cast-iron Pipework and Erection of Valves associated with Return Activated Sludge Pumping Station.

(2) Provision and Erection of 5-ton Electrically Operated Overhead Crane for Return Activated Sludge Pumping Station.

Tender documents, returnable by the 2nd MAY, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

CITY OF MANCHESTER.

TENDERS are invited for the SUPPLY, FIXING and COMMISSIONING of approx. 739 PARKING METERS.

Tender Forms, returnable by the 9th MAY, 1960, from the CITY SURVEYOR, Town Hall, Manchester, 2.

CITY OF WAKEFIELD

WATER DEPARTMENT.

MANSHEAD TUNNEL SCHEME.

The City Council has made application to the Minister of Housing and Local Government for an Order authorising, inter alia, the CONSTRUCTION of a TUNNEL, approx. 8ft. high, 7ft. wide and 1½ miles long commencing in the URBAN DISTRICT of HEBDEN ROYD and terminating in the URBAN DISTRICT of RIPPONDEN.

Contractors experienced in tunnelling, wishing to be considered by the Waterworks Committee for inclusion in a list of those who will be invited to Tender, should write to the Waterworks Engineer, 21 King Street, Wakefield, by 4th APRIL, giving brief particulars of experience, plant and staff available, together with two technical references.

Drawings, Specifications and Bill of Quantities will be issued to selected contractors in due course.

W. S. DES FORGES,
Town Clerk.

NEW RADNOR RURAL DISTRICT COUNCIL.

FRANKSBRIDGE WATER SUPPLY.

TENDERS are invited for CARRYING OUT the ABOVE WORKS, comprising:—

(a) Intake Chamber, 350yd. 9in. dia. Drive Water Main, 600yd. 2in. and 3in. dia. Asbestos-Cement Water Main, and 1,100 lin. yd. 1½in., 1¼in. and 1in. dia. Polythene Distribution Main.

(b) Ram House and Miscellaneous Chambers, complete with Ram Filters and Chlorination Gear, Small Concrete Service Tank of 6,000 gallons capacity, and all ancillary Works.

(c) The whole of the Above Works to be maintained for a period of 12 months after satisfactory completion.

Copies of the General Conditions of Contract, Specification, Bill of Quantities, Drawings and Form of Tender may be obtained from SIR HERBERT HUMPHRIES and McDONALD, Consulting Engineers, Park Chambers, 276 Monument Road, Edgbaston, Birmingham, 16, on the deposit of 10 Guineas (which will be returned on the receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents and Drawings). Cheques must be made payable to the New Radnor Rural District Council.

Particulars of the proposed works can be inspected daily between 9.30 a.m. to 12.30 p.m., and 2 p.m. to 5.30 p.m., Monday to Friday, inclusive, at the offices of the Consulting Engineers and at the office of the Clerk of the New Radnor Rural District Council, 2 Mill Street, Kington, Herefordshire. Information concerning the Drawings and documents can only be obtained from the Consulting Engineers.

Note: The Tender, together with the priced Bill of Quantities enclosed separately in the proper endorsed envelopes provided for the purpose, must be sealed and delivered to the Clerk of the Council, 2 Mill Street, Kington, Herefordshire, not later than Noon on MONDAY, 2nd May, 1960. Tenders and/or documents received after that time and date will not be considered.

The Council do not bind themselves to accept the lowest or any Tender.

R. A. INGRAM,
Clerk of the Council.

2 Mill Street,
Kington,
Herefordshire.
March, 1960.

NORTH COTSWOLD RURAL DISTRICT COUNCIL.

TENDERS are invited for the FOLLOWING:—

Fixing of Underfelt and Re-tiling to Roofs—46 Houses at Moreton-in-Marsh.

Fixing of Underfelt and Re-tiling to Roofs—20 Houses at Chipping Camoden.

Fixing of Underfelt and Re-tiling to Roofs—Six Houses at Weston Subedge.

Fixing of Underfelt and Re-tiling to Roofs—Four Houses at Condicote.

External Painting to 95 Houses at Blockley.

Specifications and Forms of Tender may be obtained from the Council's Surveyor, Council Offices, Moreton-in-Marsh, Glos., and Tenders, marked as directed on the Form of Tender, must be returned to the undersigned not later than MONDAY, 11th April, 1960.

F. NETTLETON,
Clerk of the Council.

Council Offices,
Moreton-in-Marsh,
Gloucestershire.
15th March, 1960.

CONTRACTS

GLOUCESTERSHIRE COUNTY COUNCIL.

ERECTION OF NEW TWO-FORM ENTRY SECONDARY MODERN SCHOOL FOR GIRLS, LYDNEY.

APPLICATIONS for Bills of Quantities for the ABOVE should reach MESSRS. PATTERSON AND SEATON, F/A.R.I.C.S., 11 Cathedral Road, Cardiff, by the First Post on TUESDAY, 5th April, 1960. All applications should be accompanied by a deposit of Two Guineas, made payable to the Gloucestershire County Council, which will be returnable upon receipt of a bona-fide Fixed-price Tender.

The Council's Architects for this Contract are MESSRS. T. ALWYN LLOYD AND GORDON, F/A.R.I.B.A., 6 Cathedral Road, Cardiff.

The work will be carried out in Light Steel Frame and Traditional Construction.

The Council does not bind itself to accept the lowest or any Tender.

GUY H. DAVIS,
Clerk of the County Council.

BOROUGH OF HOVE.

TENDERS are invited for MAKING-UP ROADWAY, PROVIDING and LAYING CONCRETE KERBING and CHANNELLING and ARTIFICIAL STONE SLAB PAVING, and other works, in Elizabeth Avenue (Elizabeth Close to Queen Victoria Avenue), approx. 550ft. in length.

Further particulars may be obtained, and Plans and Specification seen, at the Office of the Borough Engineer and Surveyor, MR. T. R. HUMBLE, A.M.I.C.E.

Fixed-price Tenders, on forms supplied, addressed to the undersigned and endorsed "Tender for Elizabeth Avenue," will be received up to 10 a.m., FRIDAY, 15th April, 1960.

The lowest or any Tender will not necessarily be accepted.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove.
10th March, 1960.

BOROUGH OF SUTTON COLDFIELD.

SURFACE DRESSING CONTRACT, 1960.

TENDERS are invited for the ABOVE, which covers approx. 150,000 sq. yd. of TRUNK, COUNTY and DISTRICT ROADS, together with Roads in Sutton Park.

Contract documents may be obtained from the Borough Surveyor, Council House, Sutton Coldfield. A deposit of £1 (One Pound) is required in respect of the documents, this being returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be returned to the undersigned in plain sealed envelopes endorsed "Surface Dressing," not later than Noon on MONDAY, 4th April, 1960.

J. P. HOLDEN,
Town Clerk.

Council House,
Sutton Coldfield.
11th March, 1960.

URBAN DISTRICT COUNCIL OF BIDDULPH.

PROPOSED SEWERAGE SCHEME—BIDDULPH MOOR.

The Council invite TENDERS, on a FIXED-PRICE BASIS, for the CONSTRUCTION of the ABOVE SEWERAGE SCHEME, consisting of approx. 6,750 lin. yd. of 6in. and 9in. dia. Sewers, together with approx. 90 PRECAST CONCRETE MANHOLES and ancillary Works.

Copies of the Specification, Bills of Quantities and Forms of Tender may be obtained from the Surveyor and Water Engineer, Council Offices, Biddulph, upon deposit of the sum of £3 3s. (cheques payable to the Biddulph Urban District Council), which sum will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn. The General Conditions of Contract and the Drawings may be inspected at the office of the Surveyor during normal office hours.

Tenders must be delivered to the undersigned in a plain sealed envelope, bearing no mark or indication of the name of the sender, but endorsed "Tender for Biddulph Moor Sewerage," by not later than First Post on MONDAY, 18th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ROBERT W. TRACE,
Clerk of the Council.

Council Offices,
Biddulph.

EAST BARNET URBAN DISTRICT COUNCIL.

CONTRACT NO. 917.

PARK WALK—PROVISION OF CONCRETE TROUGH TO PYMMES BROOK AT NORTHFIELD ROAD.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of approx. 55 lin. yd. of HEAVY SECTION CONCRETE CHANNEL, formed in situ, together with incidental works, including Land Drainage and Grading and Seeding of Banks.

Forms of Tender, Supplementary Conditions of Contract, Specification and Bills of Quantities may be obtained from the ENGINEER AND SURVEYOR, Town Hall, Station Road, New Barnet, Hertfordshire, on payment of a deposit of £1 1s., which will be refunded on receipt of a bona-fide Tender.

Tenders, sealed in the envelopes provided, must be received by not later than SATURDAY, 23rd April, 1960.

The lowest or any Tender will not necessarily be accepted.

CAISTOR RURAL DISTRICT COUNCIL.

TENDERS FOR HOUSING.

The above Council invite contractors who are desirous of submitting TENDERS for the ERECTION and COMPLETION of TWO HOUSES at THORESWAY, TWO BUNGALOWS at TEALBY, TWO BUNGALOWS at SWINHOPE, and TWO BUNGALOWS at RIBY (total eight Dwellings all in Pairs), to send in their names to the Architects, MESSRS. WM. SAUNDERS AND PARTNERS, of 24 Castle Gate, Newark-on-Trent, Notts.; or 57 Upgate, Louth, Lincolnshire, from whom copies of the Specifications and Bills of Quantities and Conditions may be obtained on payment of £3 3s., which will be returned on receipt of a bona-fide Tender.

The Council do not bind themselves to accept the lowest or any Tender received, and acceptance is subject to the approval of the Ministry of Housing and Local Government.

Sealed and endorsed Tenders, on forms supplied must reach the undersigned not later than 12 Noon on FRIDAY, the 8th April, 1960.

C. G. BARR,
Clerk of the Council.

Council Offices,
Caistor,
Lincoln.
18th March, 1960.

CONTRACTS

CHESHIRE COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

CHESTER-ELLESMERE PORT ROAD, A.5032.

ELLESMERE PORT LEVEL CROSSING.

TENDERS are invited for the CONSTRUCTION of a THREE-SPAN BRIDGE over the RAILWAY, adjacent to the ABOVE LEVEL CROSSING, together with Filled Approaches Supported by Mass Concrete Walls, and incidental Demolition, Drainage, Fencing and Road Works.

Tendering documents may be obtained from the undersigned on payment of a deposit of Ten Guineas (£10 10s.), by crossed cheque made payable to "Cheshire County Council," which deposit will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be forwarded in plain sealed envelopes endorsed "Ellesmere Port Level Crossing," to the Clerk of the County Council, County Hall, Chester, and must be received by him not later than Noon on TUESDAY, 26th April, 1960. No Tenders received after the time stated will be considered.

The County Council do not bind themselves to accept the lowest or any Tender.

C. G. DAY,
County Surveyor.

Backford Hall,
Near Chester.
16th March, 1960.

BOROUGH OF ELLESMERE PORT.

CONTRACT NO. 274.

ERECTION OF TWO-STOREY FLATS, GRAFTON ROAD, ELLESMERE PORT.

TENDERS are invited for the CONSTRUCTION of ONE BLOCK, comprising FOUR ONE-BEDROOM FLATS, GRAFTON ROAD, Ellesmere Port, including all necessary ancillary Works.

Contract documents obtainable from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port, on the 19th March, 1960.

Sealed Tenders, in the plain official envelope provided, must reach the undersigned by Post by not later than 5 p.m. on MONDAY, the 11th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE,
Town Clerk.

Municipal Offices,
Ellesmere Port,
Cheshire.
14th March, 1960.

CITY OF CANTERBURY.

CONSTRUCTION OF ROADWORKS AND SEWER IN THE MAKING-UP OF RAYMOND AVENUE, UNDER THE HIGHWAYS ACT, 1959.

TENDERS are invited for the CONSTRUCTION of CARRIAGEWAY and FOOTWAYS (approx. length 100yd.), with incidental Works of Constructing SURFACE WATER SEWER, STREET LIGHTING, etc.

Drawings, Specification, Bill of Quantities and Form of Tender may be obtained from the City Engineer, Municipal Buildings, Dane John, Canterbury. General Conditions of Contract may be examined at his office during normal office hours.

Tenders, in plain sealed envelopes endorsed "Raymond Avenue Roadworks," should be returned to the undersigned and received not later than MONDAY, 4th April, 1960.

Signed J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.
16th March, 1960.

BROMSGROVE URBAN DISTRICT COUNCIL.

GUNNER LANE, RUBERY—IMPROVEMENT.

The Council invite TENDERS for the RECONSTRUCTION of the ABOVE ROAD. The approx. Quantities of Work are as FOLLOWS:—

Excavation—1,700 cu. yd.
Kerbing—700 lin. yd.
Carriageway Construction—2,000 super. yd.
Storm Water Sewer—230 lin. yd.
Footpath Construction—1,500 super. yd.
together with all ancillary Works.

Bills of Quantities and Specification may be obtained from the Engineer and Surveyor, Council House, Bromsgrove, on a deposit of £2 2s. The deposit will be refunded on receipt of a bona-fide Tender and the return of all documents.

General Conditions of Contract and Drawings may be inspected at the above office.

Tenders, in plain sealed envelopes endorsed "Gunner Lane," are to be delivered to the undersigned not later than FRIDAY, 15th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. A. JESSOP,
Clerk to the Council.

Council House,
Bromsgrove.
16th March, 1960.

PORTLAND URBAN DISTRICT COUNCIL.

PROVISION OF GARAGES.

The Council invite TENDERS for the PROVISION of 22 PRECAST CONCRETE GARAGES on the VERNE COMMON HOUSING ESTATE, Portland.

Tenders, in plain sealed envelopes endorsed "Garages," addressed to the Clerk of the Council, should be submitted by the 2nd APRIL, 1960.

Plans and details of sites may be obtained from the undersigned.

E. B. CULLIN,
Engineer and Surveyor.

Council Offices,
Portland.

IRLAM URBAN DISTRICT COUNCIL.

FLAGGING OF FOOTPATHS.

TENDERS are invited for the FLAGGING of approx. 1,200 sq. yd. of FOOTPATHS on the GLAZE ESTATE, Cadishead.

On deposit of One Pound, Tender documents may be obtained from, and Conditions of Contract and Plan may be inspected at, the office of the Engineer and Surveyor.

Tenders to be delivered to the CLERK OF THE COUNCIL, Council Offices, Irlam, by SATURDAY, 9th April, 1960.

FYLDE WATER BOARD.

TENDERS are invited for SUPPLY and DELIVERY of ROTARY PISTON TYPE WATER METERS.

Further particulars from ENGINEER TO THE BOARD, Sefton Street, Blackpool.

TENDERS must be received not later than 12th APRIL, 1960.

CONTRACTS

COUNTY BOROUGH OF WOLVERHAMPTON.

CONSTRUCTION OF ROADS AND FOOTWAYS—GROVE STREET, HEATH TOWN.

TENDERS are invited for the CONSTRUCTION of 2,100 sq. yd. of BITUMINOUS MACADAM CARRIAGEWAY on a Wet-mix Foundation, together with necessary Excavation, 500 lin. yd. of Precast Concrete Kerbing, and 880 sq. yd. of Precast Concrete Flag Paving to Footways.

Drawings may be inspected at the Office of the Borough Engineer, Town Hall, Wolverhampton, from whom Tender documents may be obtained upon payment of Two Guineas, to be refunded upon receipt of a bona-fide Tender which is not subsequently withdrawn.

Tenders, enclosed in envelope provided, to the TOWN CLERK, Town Hall, Wolverhampton, by TUESDAY, 5th April.

BOROUGH OF KIDDERMINSTER.

NORTH WESTERN DRAINAGE SCHEME.

TENDERS are invited for CARRYING OUT the FOLLOWING SURFACE WATER SEWERAGE WORKS:

(a) Construction in Heading—640 lin. yd. of 39in. and 48in. Concrete Pipes.
(b) Construction in Open Cut—850 lin. yd. of 30in. to 48in. O.G. Concrete Pipes; 1,760 lin. yd. of 18in. to 24in. Thickwall Concrete Pipes; 1,610 lin. yd. of 9in. to 15in. S. & S. Concrete Pipes.
(c) Manholes, Gullies and Gulley Connections, and other ancillary works.

Drawings and Conditions of Contract may be inspected at, and the Specification, Bills of Quantities, etc., may be obtained from the Office of the Borough Engineer and Surveyor, 110 Mill Street, Kidderminster, on receipt of a deposit of £4, which will be returned on receipt of a bona-fide Tender, or the return of all documents.

Tenders and priced Bills of Quantities are to be delivered in the envelope provided, endorsed "Tender for E.146/25/4," to the undersigned, not later than Noon on MONDAY, 25th April, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

JOHN L. EVANS,
Town Clerk.

Town Hall,
Kidderminster.

BOROUGH OF HARROW.

HOUSING CONTRACTS—LIST OF BUILDING CONTRACTORS.

The CORPORATION invite applications from building contractors for inclusion in selected lists of contractors from whom TENDERS will be invited during the period ending 31st MARCH, 1961, for the ERECTION of HOUSES, FLATS, and ancillary works. The lists will be for Contracts of the following values:

LIST (A)—over £100,000.
LIST (B)—between £30,000 and £100,000.
LIST (C)—between £1,000 and £30,000.

Application for inclusion in any, or all, of the selected lists, which should be clearly stated, must be received by me not later than Noon on 30th APRIL, 1960, and should be accompanied by full particulars of works of the particular category recently carried out, preferably for local authorities, together with the name and address of the architect or authority. Details of labour resources must also be given.

Applicants are asked to confirm in writing that, in tendering for building work, they will not follow the restrictive practices criticised by the Monopolies Commission.

When the lists of contractors have been compiled, the Corporation will invite TENDERS, within the amounts stated and during the above-mentioned period, from contractors whose names appear upon the lists, subject to the lists being reviewed and names added or removed, at the discretion of the Corporation.

The Corporation do not necessarily bind themselves to include any applicant on the lists.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
92 Uxbridge Road,
Harrow, Middx.
15th March, 1960.

SWADLINCOTE URBAN DISTRICT COUNCIL.

ABBOTTS FARM HOUSING ESTATE, NEWHALL.

The Council invite TENDERS, on a Fixed-rate Basis, for the ERECTION of 58 TRADITIONAL DWELLINGS on the Abbotts Farm Housing Estate, Newhall, comprising Seven Pairs of Type Z Two-bedroom Houses and 22 Pairs of Type R/1 Three-bedroom Houses.

Bills of Quantities, Specifications, Forms of Tender, Regulations as to Tendering, and Plans may be obtained from the Engineer and Surveyor, Bank House, Midland Road, Swadlincote, on receipt of £2 2s. which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

The Form of Tender, together with the signed copy of the Regulations as to tendering, should be enclosed in a plain sealed envelope endorsed "Tender for 58 Dwellings—Abbotts Farm Housing Estate," and should reach the Office of the undersigned not later than the 25th APRIL, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

C. D. HULL,
Clerk of the Council.

Clerk's Office,
Council Offices,
Swadlincote.
16th March, 1960.

STOURBRIDGE MAIN DRAINAGE BOARD.

DUPLICATION OF SOUTHERN MAIN SEWER.

TENDERS are invited for the SUPPLY and LAYING of approx. 1,670yd. of 9in., 12in. and 15in. dia. SEWERS and Manholes in Stourbridge, for the above Drainage Board.

Contractors wishing to tender should apply for the documents to the Board's Consulting Engineers, JOHN H. HAISTE AND PARTNERS, 10c Hagley Road, Stourbridge, enclosing a deposit cheque value Three Guineas, made payable to the Stourbridge Main Drainage Board, such deposit to be refunded upon receipt of a bona-fide Tender and the return of all documents. Drawings may be inspected by appointment at the above address.

Tenders to be submitted to the undersigned not later than Noon on WEDNESDAY, 13th April, 1960.

The Board do not bind themselves to accept the lowest or any Tender they may receive.

A. P. DRURY,
Clerk to the Board.

Council House,
Stourbridge.

CONTRACTS

COUNTY BOROUGH OF BOURNEMOUTH.

ONE 16/24 EAGLE COMPRESSMORE PALADIN REFUSE VEHICLE AND 100 PALADIN CONTAINERS.

TENDERS are invited for SUPPLYING and DELIVERY of the ABOVE.

Specification and Tender Form obtainable from Borough Engineer, Town Hall, Bournemouth.

Tenders to reach me by the 7th APRIL, 1960.

A. LINDSAY CLEGG,
Town Clerk.

BOROUGH OF KEIGHLEY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

LAYCOCK SEWERAGE.

TENDERS are invited for the CONSTRUCTION of approx. 1,990yd. of CONCRETE and GLAZED WARE SEWER, varying from 9in. to 24in. dia., together with Manholes.

Contract documents may be obtained from the Borough Engineer and Surveyor, College Street, Keighley, on payment of a deposit of £2, which will be returned on receipt of a bona-fide Tender.

Plans may be inspected at the Office of the Borough Engineer.

Tenders, sealed in the envelope provided, must be delivered to the undersigned not later than 10 a.m., THURSDAY, 7th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. W. SMITH,
Town Clerk.

Town Hall,
Keighley, Yorks.

CITY AND COUNTY OF NEWCASTLE UPON TYNE.

KING GEORGE V PLAYING FIELD.

SINGLE-STOREY BRICK-BUILT PAVILION.

TENDERS are invited for the CONSTRUCTION of a new SINGLE-STOREY BRICK-BUILT PAVILION in King George V Playing Field.

Copies of the Specification may be obtained from the City Engineer, Town Hall, Newcastle upon Tyne, to whom sealed Tenders are to be delivered not later than 10 a.m. on MONDAY, 11th April, 1960.

No Tender will be considered unless it is enclosed in the official envelope provided for that purpose, and such envelope shall not bear any name or mark indicating the sender. Postal franking machines endorsing the name of the sender should not be used.

The lowest or any Tender will not necessarily be accepted.

By Order.
JOHN ATKINSON,
Town Clerk.

Town Hall,
Newcastle upon Tyne, 1.
March, 1960.

CITY OF NOTTINGHAM

POLICE CLOTHING.

TENDERS are invited for the SUPPLY of POLICE CLOTHING.

Full particulars and Forms of Tender can be obtained from the Chief Constable, City Police Headquarters, Nottingham.

Tenders, sealed and endorsed "Tenders for Police Clothing," with samples, should be sent to me not later than 5 p.m. on FRIDAY, 29th April, 1960.

T. J. OWEN,
Town Clerk.

The Guildhall,
Nottingham.
17th March, 1960.

ESHER URBAN DISTRICT COUNCIL.

LAYING OF CLINKER ROADWAYS ON ALLOTMENT SITES.

CONTRACT NO. 301.

TENDERS are invited for the WORK of LAYING approx. 5,700 sq. yd. of CLINKER AND ASH ROADWAYS and Hardstandings on FOUR ALLOTMENT ESTATES in the Urban District area.

Form of Tender, Specification, and Bills of Quantities may be obtained from the Engineer and Surveyor, Council Offices, High Street, Esher, upon payment of £1 1s., which will be refunded upon receipt of a bona-fide Tender, together with the return of all documents in good condition.

Tenders, on the prescribed form, enclosed in the envelope provided, endorsed "Contract No. 301," and bearing no name or mark indicating the sender, must be returned to the undersigned not later than 5 p.m. on TUESDAY, 12th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher.
16th March, 1960.

EXMOUTH URBAN DISTRICT COUNCIL.

CONTRACT "G."

EXTENSIONS AT DOTTON PUMPING STATION.

The above Council invites TENDERS for the CARRYING OUT OF WORK in and adjacent to their Dotton Pumping Station. The work includes the Construction of Foundations and Floor Trenches for Pumping and Electrical Equipment; the Installation of a Cast-iron Pipeline between the No. 3 Borehole and the Pumping Station, and of Short Lengths of Pipeline between the Pumping Station and the Rising Mains; the Installation of Metering Equipment and the Grouting-up of Pumping and Electrical Equipment installed by others.

The Drawings may be seen, and the Specification, Schedule of Quantities and Form of Tender obtained on application to G. H. HILL AND SONS (MANCHESTER), Civil Engineers, 51 Mosley Street, Manchester, 2, upon deposit of a cheque for Five Guineas, and made payable to G. H. Hill and Sons (Manchester).

This sum will be returned to the tenderer provided that he shall have submitted a bona-fide Tender and shall not have withdrawn same.

Alternatively, documents and Drawings may be inspected at the Office of the Surveyor and Water Engineer, Exmouth.

Sealed Tenders, endorsed "Extensions at Dotton Pumping Station," and addressed to the Chairman of the Water Committee, Council Offices, Exmouth, must be delivered not later than Noon on the 14th day of APRIL, 1960.

The Council does not bind itself to accept the lowest or any Tender.

R. S. BAGSHAW.

Council Offices,
Exmouth.

CONTRACTS

GLOUCESTERSHIRE COUNTY COUNCIL.

FILTON BY-PASS SUBSTITUTE.

ABLETON LANE DIVERSION.

TENDERS are invited for the FOLLOWING CONTRACTS:

(1) Filton By-pass Substitute. — The works, which are situated between Almondsbury and Cribbs Causeway, Henbury, near Bristol, consist of Drainage, Earthworks, Construction of $3\frac{1}{2}$ miles of dual 24ft. wide Carriageways, Hard Shoulders, Footpaths, Fencing, ancillary works, and the Reconstruction of one Railway Bridge. Completion required by 31st October, 1961.

(2) Ableton Lane Diversion.—The works, which are situated between Severn Beach and Severn Road, Chittening, Bristol, consist of Drainage, Earthworks, Construction of $1\frac{1}{2}$ miles of Single 24ft. Carriageway, Footpath, Fencing, ancillary works, and the Construction of a 280ft. long Concrete Viaduct with Prestressed Beams. Contractors may submit alternative designs and tender for the Viaduct. Latest date for completion, 29th April, 1961.

Contractors may tender for each scheme separately, or for carrying out both schemes, and tender documents will be available on the 4th APRIL, 1960, and can be obtained from the County Surveyor, Quay Street, Gloucester, on payment of a deposit of £50 made payable to the Gloucestershire County Council which will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders, in plain sealed envelopes, endorsed "Filton By-pass Substitute/Ableton Lane," must be received by the County Surveyor, Quay Street, Gloucester, not later than 10 a.m. on WEDNESDAY, 27th April, 1960.

The Council does not bind itself to accept the lowest or any Tender.

GUY H. DAVIS,
Clerk of the County Council.

16th March, 1960.

METROPOLITAN BOROUGH OF WANDSWORTH.

HOUSING AT TOOTING.

Contractors wishing to TENDER for ERECTION of a SEVEN-STOREY BLOCK of 21 FLATS at SOUTHCROFT ROAD should submit names to me by 6th APRIL, 1960, giving details of experience, plant and technical and supervisory staff available, together with names of two technical and two financial referees.

Bills of Quantities will be issued to selected contractors in due course.

Drawings may be examined at Office of MR. J. HEWITT MITCHELL, A.R.I.B.A., A.I.Arb., 140 Streatham Hill, S.W.2.

J. NOEL MARTIN,
Town Clerk

Municipal Buildings,
Wandsworth, S.W.18.

BOROUGH OF TWICKENHAM.

PRIVATE STREET IMPROVEMENT WORKS.

The CORPORATION hereby invite TENDERS for the MAKING-UP of CONWAY ROAD, Hounslow. The works comprise the Construction of a Carriageway (approx. 3,000 sq. yd.), Footways, Verges, Kerbing, and approx. 1,000 lin. yd. of Sewers.

Plans may be inspected, and Specification, Bills of Quantities and Forms of Tender obtained, upon application to MR. A. S. KNOLLES, B.Sc., M.I.C.E., Borough Engineer, Municipal Offices, Twickenham, and the payment of Two Guineas deposit, returnable on receipt of a bona-fide Tender.

Sealed Tenders, in plain envelopes, and not bearing any name or mark indicating the sender, and endorsed "Tender for Private Street Works—Conway Road," to be delivered to the undersigned not later than 10 a.m. on TUESDAY, 12th April, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

W. H. JONES,
Town Clerk.

Municipal Offices,
Twickenham.
March, 1960.

BOROUGH OF HAMPSTEAD.

Contractors wishing to TENDER for the EXTERNAL PAINTING of the FOLLOWING HOUSING ESTATES:

(1) Komplay Road—7 Houses;
(2) Broadfield and Fairhurst—8 Houses and 162 Flats;
(3) South End Close—140 Flats and Staircases.
(4) Wood Field and Barn Field—92 Flats and Staircases:

should send names to me by 12th APRIL, 1960, with a statement of work already carried out. State for which Estates it is desired to submit Tenders.

Tenderers will be selected, and the Council may add others.

B. H. WILSON,
Town Clerk.

Town Hall,
Haverstock Hill, N.W.3.

DEVIZES RURAL DISTRICT COUNCIL.

EASTERTON, MARKET LAVINGTON AND WEST LAVINGTON.

SEWERAGE AND SEWAGE DISPOSAL.

STAGE TWO.

The Council invite TENDERS, on a FIXED-PRICE BASIS, for the CONSTRUCTION of about 6,400 lin. yd. of 9in. and 6in. SEWERS and EXTENSION to WOODBRIDGE SEWAGE DISPOSAL WORKS at WEST LAVINGTON, Wilts.

Tendering documents may be obtained from, and Plans inspected by appointment at the office of the Council's Consulting Engineers, MESSRS. HARVEY McGILL AND HAYES, 3a Market Place, Chippenham, Wilts.

Applications are to be accompanied by a cheque for Five Pounds, payable to the Devizes Rural District Council, and in the case of contractors who have not previously carried out work for the Council or under the direction of the Engineers, by particulars of similar work done and the names and addresses of the Engineers concerned. The deposit will be returnable on receipt of a bona-fide Tender not subsequently withdrawn and return of all documents required.

Tenders are to be delivered to the undersigned not later than 10 a.m. on SATURDAY, 23rd April, 1960, in an envelope endorsed "Tender for West Lavington Sewerage."

The Council do not bind themselves to accept the lowest or any Tender.

JOHN SPENCER,
Clerk of the Council.

Council Offices,
Browfort,
Devizes,
Wilts.
19th March, 1960.

CONTRACTS

NEW SOUTH WALES, AUSTRALIA.

METROPOLITAN WATER, SEWERAGE AND DRAINAGE BOARD.

JOB NO. 3389-W.

TENDERS are invited for the MANUFACTURE, SUPPLY, TESTING and DELIVERY f.o.b. of approx. 100 Miles of 4in. nominal dia., Centrifugally Spun, Cement Lined or Unlined, CAST-IRON PIPES suitable for Push-in Rubber Ring Joints, with Unlined Cast-iron Bends, Tees and Hydrant Tees, suitable for Lead Jointing.

Copies of the Specification and Tender documents may be obtained on application to the Agent-General for New South Wales, 56/57 Strand, London, W.C.2.

Tenders must be delivered to the SECRETARY, Metropolitan Water, Sewerage and Drainage Board, 341 Pitt Street, Sydney, New South Wales, Australia, not later than 2 p.m. on TUESDAY, 12th April, 1960.

ROYAL COUNTY OF BERKSHIRE.

HIGHWAYS ACT, 1959—PART IX.

PRIVATE STREET WORKS.

TENDERS are invited for MAKING-UP WOODLANDS RIDE, Sunninghill.

The Works comprised in this Contract are as follows:—

Approx. 2,000 sq. yd. of Hardcore and Bituminous Macadam Carriageway, 1,250 sq. yd. of Bituminous Macadam and Asphalt Footways, 700 lin. yd. of Kerbing, 250 lin. yd. of Highway Drain, and incidental Works.

Drawings may be inspected at, and Specification, Bill of Quantities and Form of Tender obtained from, the office of the County Surveyor, Shire Hall, Reading, on payment of a deposit of £2.

The deposit will be refunded on receipt of a bona-fide Tender.

Tenders, in envelope provided, must be returned by not later than 12 Noon on FRIDAY, 8th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

COUNTY BOROUGH OF BURY.

TENDERS invited for MAJOR ADAPTATIONS at SCHOOL OF ARTS AND CRAFTS, BROAD STREET.

Bills of Quantities and General Conditions obtainable from Borough Engineer, Town Hall, Bury. Deposit of £2, returnable on receipt of a bona-fide Tender.

Tenders, enclosed in official envelope provided, must reach me by 18th APRIL, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.
24th March, 1960.

HOLDERNESS RURAL DISTRICT COUNCIL.

PAULL SEWERAGE PUMPING STATION.

TENDERS are invited from experienced public works contractors for the CONSTRUCTION of a MOTOR ROOM, ALTERATIONS to the PUMPING STATION SUB-STRUCTURE, and ancillary Works at PAULL, under the supervision of the Council's Consulting Engineer, JOHN DOSSER, M.I.C.E., Monk Bar Chambers, York.

Contractors desirous of tendering for the work are requested to send their names and addresses immediately to JOHN DOSSOR AND ASSOCIATES at the above address, accompanied by a cheque for £2 2s., made payable to the Holderness Rural District Council, after which copies of the Contract documents will be forwarded to applicants. The deposit will be refunded on receipt of a bona-fide Tender and return of all documents after the Tender is let. Copies of the Contract Drawings will be available for inspection at the offices of the Council and of the Consulting Engineer.

Tenders, in plain sealed envelopes endorsed "Tender—Paull Pumping Station," must be delivered to the undersigned not later than First Post TUESDAY, 19th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. M. FENWICK,
Clerk of the Council.

Council Offices,
Skirlaugh,
Hull.

BATHAVON RURAL DISTRICT COUNCIL.

ERECTION OF SIX HOUSES, FAIRY HILL, COMPTON DANDO.

TENDERS are invited for the ERECTION of ONE BLOCK of SIX HOUSES on the COUNCIL'S HOUSING SITE at Compton Dando.

Applications for Tender documents should be made by not later than SATURDAY, 9th April, 1960, to the Council's Architect, P. KENNERELL POPE, Esq., A.R.W.A., A.R.I.B.A., 18 Brock Street, Bath, accompanied by a deposit of Two Guineas (by cheque payable to Bathavon R.D.C.), which will be refunded on receipt of a bona-fide Tender and the return of the Tender documents.

The Council's Architect will advise contractors of the latest date for receipt of Tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. G. FOXTON PRICE,
Clerk of the Council.

Council Offices,
Westgate Buildings,
Bath.
21st March, 1960.

BIRMINGHAM AND REA DISTRICT DRAINAGE BOARD.

MINWORTH NEW WORKS—PORTLAND CEMENT IN BULK.

TENDERS are invited for the SUPPLY and DELIVERY over the next 12 months of up to 1,000 Tons of PORTLAND CEMENT. Orders would be placed in bulk, as required to suit the Board's construction programme.

Tender documents may be obtained from the Engineer to the Board, Rookery Park, Erdington, Birmingham, 24, on payment of Two Guineas deposit. Deposits will be returned on receipt of bona-fide Tenders not subsequently withdrawn, or on notification of inability to tender, and return of documents to be received not later than three days prior to the closing date for the bona-fide Tenders.

Tenders, in the envelope provided, must reach the undersigned not later than MONDAY, 11th April 1960.

The Board is not bound to accept the lowest or any other Tender.

ARTHUR J. WRIGHT,
Clerk to the Board.

Clerk's Office,
Lombard House,
Great Charles Street,
Birmingham, 1.
16th March, 1960.

CONTRACTS

BOROUGH OF HEMEL HEMPSTEAD.

SUPPLY OF STREET LIGHTING MOBILE WORKSHOP.

TENDERS are invited for the SUPPLY and DELIVERY of a STREET LIGHTING MOBILE WORKSHOP, incorporating a RoTable Overhead Platform of a type to be recommended by the supplier.

Brief particulars of requirements, together with Forms of Tender, may be obtained from A. H. TURNER, A.M.I.C.E., at whose office the General Conditions of Contract may be inspected during normal office hours.

Tenders, in sealed envelope bearing no mark or identification of the sender, must be delivered not later than Noon on MONDAY, 4th April, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender.

C. W. G. T. KIRK,
Town Clerk.

Town Hall,
Hemel Hempstead.
March, 1960.

EXCAVATION SUB-CONTRACTORS REQUIRED for contracts in Nottingham and Leicester areas. Please write to Box X.1522, "The Contract Journal."

ESTIMATES WANTED for Excavations, Roads, Sewers, Pipe Mains, General Civil Works, Building, Conversions, should be PREPARED by Britain's Top Free-lance Estimator, R. J. CARR, 42 Coombe Road, New Malden, Surrey. Malden 8640.

For Contracts received too late for classification see page 1521

APPOINTMENTS VACANT

NORFOLK COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the UNDERMENTIONED APPOINTMENT at Head Office, Norwich:
Senior Engineer (Roads)—Grade IV-V (£1,065-£1,375 per annum).

Applicants should be Associate Members of the Institution of Civil Engineers, or hold an equivalent qualification by examination. They must be competent Surveyors, having had experience of the design of major improvements, setting-out and construction.

A motor car is essential, and the appointed officer will be paid an essential user's car allowance. A loan is available for purchase, if required.

The appointment will be on the permanent establishment of the Department and the provisions of the Local Government Superannuation Acts, 1937 to 1953 apply. The successful candidate will be required to pass a medical examination.

The National Joint Council Service Conditions apply in general.

Further particulars and Application Forms obtainable from COUNTY SURVEYOR, County Offices, Thorpe Road, Norwich.

Latest date for completed Application Forms—8th APRIL, 1960.

COUNTY BOROUGH OF ROTHERHAM.

APPOINTMENT OF SENIOR ENGINEERING ASSISTANT.

GRADE IV (£1,065-£1,220).

APPLICATIONS are invited for an APPOINTMENT of SENIOR ENGINEERING ASSISTANT in the Office of E. J. MANSON, B.Eng., A.M.I.C.E., M.I.Mun.E., Borough and Water Engineer, on Grade IV of the A.P.T. Division of Scales, commencing at a salary of £1,065 per annum and rising by annual increments to a maximum of £1,220 per annum.

Applicants must be Corporate Members of the Institution of Civil Engineers and/or of the Institution of Municipal Engineers, and must have had a good general experience of the work of a municipal engineer's office.

Preference will be given to candidates holding a University degree in Civil Engineering.

The person appointed will be required to pass a medical examination and to contribute to the superannuation scheme.

Housing accommodation can be provided if necessary. Removal expenses up to a maximum of £25 will be paid by the Council to the person appointed, if married.

Applications, endorsed "Senior Engineering Assistant," stating age, qualifications, and details of experience, together with the names of two referees, should be received by me not later than MONDAY, 28th March, 1960.

JOHN S. WALL,
Town Clerk.

Municipal Offices,
Howard Street,
Rotherham.
March, 1960.

CITY OF LEICESTER.

CITY SURVEYOR'S DEPARTMENT.

The establishment of the recently reorganised civil engineering branch is being extended to enable the large programme of capital works, including the construction of central and other ring roads, sewerage and sewage disposal works, estate developments and flood courses to be carried out. Applications are invited from suitably qualified and experienced persons for POSTS at the following levels:—

(1) Chief Assistant Engineer, Scale B (£1,265-£1,485).
(2) Project Engineers, Scale A (£1,220-£1,470).
(3) Project Engineers, A.P.T. V (£1,220-£1,375).
(4) Assistant Engineers, A.P.T. IV (£1,065-£1,220).

Housing accommodation will be provided for married officers.

Applications, giving full details, together with the names of two referees and stating which post is applied for, to reach the undersigned not later than 1st APRIL, 1960.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

RICKMANSWORTH AND UXBRIDGE VALLEY WATER COMPANY.

ENGINEERING DRAUGHTSMAN.

APPLICATIONS are invited for a neat DRAUGHTSMAN for employment in the Distribution Section of the Company at Rickmansworth.

The position is permanent, with good salary and conditions, and offers opportunities for advancement. After six months' satisfactory service the successful applicant would be required to become a member of, and contribute to, the Company's contributory pensions fund.

Applications should be made in writing to the CHIEF ENGINEER, Rickmansworth, Herts.

APPOINTMENTS VACANT

COUNTY BOROUGH OF GRIMSBY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

ENGINEERING ASSISTANTS.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS on the PERMANENT STAFF of the Department:

(a) One Engineering Assistant, Special Grade (£785-£1,070 p.a.).
(b) One Engineering Assistant, Grade A.P.T. II (£765-£880 p.a.).

The appointments will be subject to the Conditions of Service of the National Joint Council, terminable by one month's notice on either side, and to the provisions of the Local Government Superannuation Acts. The successful candidates will be required to pass a medical examination.

Applications, stating age, qualifications, present and past appointments, and details of experience, together with the names and addresses of two referees, must be forwarded to the undersigned not later than First Post on MONDAY, the 11th April, 1960.

J. V. OLDFIELD, M.Inst.C.E.,
Borough Engineer and Surveyor.

Municipal Offices,
Town Hall Square,
Grimsby.
March, 1960.

BOROUGH OF DAGENHAM.

RESIDENT ENGINEER REQUIRED for approx. 12 months to supervise the construction of reinforced concrete roads, foundation rafts, sewers and drains for housing development at Canvey Island, Essex. Salary £1,200 per annum.

The Council will assist towards securing housing accommodation.

Candidates with experience of supervising works of this nature should apply to the Borough Engineer and Surveyor for Form of Application and further particulars. Closing date: 4th APRIL, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS invited for FOLLOWING SUPERANNUABLE APPOINTMENTS:—

(a) Engineering Assistant, Grade A.P.T. III or Special Grade, according to qualifications (£880-£1,065 or £1,070). Preference to suitably qualified persons with experience of the Private Street Works Code of 1892.
(b) Engineering Draughtsman (Male), Grade A.P.T. I (£610-£765). Starting point according to experience. Applicants must be good draughtsmen, preferably with local authority experience.

Plus London Weighting.
Housing accommodation, if required.

Applications, giving age, qualifications and experience and names of two referees, to undersigned by Noon, MONDAY, 4th April, 1960.

T. W. FAGG,
Clerk of the Council.

Council Offices,
Sidcup Place,
Sidcup,
Kent.

YEOVIL RURAL DISTRICT COUNCIL.

APPOINTMENT OF WATERWORKS INSPECTOR.

APPLICATIONS are invited for this APPOINTMENT from men with suitable technical qualifications, at a salary in accordance with Grade V of the Scheme of Conditions of Service for the Miscellaneous Class of Officers (£650-£715). This salary will include overtime, and the normal working week will be 44 hours.

Applicants must have had considerable experience in the waterworks industry and be capable of controlling the maintenance staff on the distribution side of the Council's undertaking. Duties will include supervision of the repair of mains, services and service reservoirs, the laying of mains and making service connections, the administration of the Water By-laws, waste detection and prevention, the keeping of records, etc.

Essential user's travelling allowance (car under 1,200 c.c.) will be paid and, if required, the Council will provide housing accommodation when available for which full rent will be payable.

The appointment is subject to: (a) the N.J.C. Scheme of Conditions of Service; (b) the Local Government Superannuation Acts, 1937 to 1953; (c) one month's notice on either side; and (d) the passing of a medical examination.

Applications, stating age, qualifications and experience, and the names and addresses of two referees, to be sent so as to reach the undersigned by not later than 7th APRIL, 1960.

C. M. BRAMWELL,
Clerk of the Council.

28 Kingston,
Yeovil, Som.
17th March, 1960.

CORPORATION OF COVENTRY.

ASSISTANT ENGINEERS REQUIRED, A.P.T. IV (£1,065-£1,220) and Special (£785-£1,070). Commencing grades and salaries according to qualifications/experience. To work on design and supervision of civil engineering works incorporated in City Redevelopment programme and other interesting projects.

Housing accommodation may be available. Removal expenses loan (up to £50) provided where necessary.

Application Forms from CITY ENGINEER, Council House, Coventry.

Returnable by 30th MARCH, 1960.

WEST HERTS. MAIN DRAINAGE AUTHORITY.

SHIFT ENGINEER.

SHIFT ENGINEER REQUIRED for a modern, highly mechanised sewage treatment and disposal works with dual-fuel engines and power station, generating A.C. at 3.3-kV. Candidates should be experienced in sewage works operation and have a sound understanding of A.C. generation and distribution. A good knowledge and experience of the operation of medium-speed diesel plant is essential. Age not over 45.

N.J.C. Conditions of Service. Salary within A.P.T. Grade I, commencing at £670 and rising to £765 per annum for 44-hour week. Shift allowance of 7d. an hour in addition, yielding approx. £66 per annum. Regular overtime of four hours per week is at present worked.

Superannuation scheme in operation. Appointment subject to medical examination.

Apply in writing, giving full particulars of experience, with names and addresses of two referees, to GENERAL MANAGER, West Herts. Main Drainage Authority, Maple Lodge, Maple Cross, Rickmansworth, by 31st MARCH, 1960.

APPOINTMENTS VACANT

LONDON COUNTY COUNCIL.

BUILDING SITE SUPERVISORS REQUIRED for erection of houses and blocks of flats by direct employment of labour. Wide experience of supervision on traditional building work and reinforced concrete construction as applied to multi-storey flats.

Salary according to qualifications and experience. Bonus on results may be earned, in addition.

Apply, stating age, brief details of experience, and qualifications, to DIRECTOR OF HOUSING, G/TSS.4, County Hall, S.E.1. (646)

LONDON COUNTY COUNCIL.

HOUSING MANAGEMENT DEPARTMENT.

TECHNICAL ASSISTANTS REQUIRED for the FOLLOWING SUPERANNUABLE POSITIONS in Works Division, Housing Management Department. Salary up to £895, according to experience and qualifications:

(i) Surveyors for measuring and operation of incentive scheme for bonus payments for all trades on new construction and large-scale modernisation and conversions.
(ii) Surveyors for the preparation of schedules of materials from drawings and specifications for ordering purposes.

Apply personally (Room 121, South Block), or telephone WAT 5000 (Ext. 6902) for further information, or write, giving age, full details of qualifications and experience and position applied for, to DIRECTOR OF HOUSING (Ref. HM/G/WS), County Hall, S.E.1, not later than 4th APRIL, 1960. (647)

WORCESTERSHIRE COUNTY COUNCIL.

EDUCATION COMMITTEE.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited from men who have had considerable experience in the building trade, to supervise new schools and extensions to schools. The salary is £16 10s. per week plus a travelling allowance.

Applications, stating age, qualifications and experience, to be submitted to me by the 31st MARCH, 1960.

J. C. BROOKE,
County Education Officer.

County Education Office,
Castle Street,
Worcester. (X.190)

BURGH OF GRANGEMOUTH.

ENGINEERING ASSISTANT.

APPLICATIONS are invited for the UNESTABLISHED POST of ENGINEERING ASSISTANT in the Burgh Engineer's Department, Grangemouth, on the Salary Scale £805-£915, with placing according to age and experience.

Applicants should have completed their training and had some general engineering experience.

Applications, stating age, qualification, and particulars of experience, together with the names of two referees, should be returned to the undersigned not later than MONDAY, 28th March, 1960.

W. BRYCE JOHNSTON,
Town Clerk.

Municipal Chambers,
Grangemouth.
16th March, 1960.

BOROUGH OF CASTLEFORD.

APPOINTMENT OF SENIOR ASSISTANT ENGINEER.

Salary—Special Grade (£785-£1,070); commencing salary according to qualifications and experience. N.J.C. Service Conditions; superannuable; terminable on one month's notice either side.

Applicants should be Corporate Members of the Institution of Municipal and/or Civil Engineers, and have had considerable experience in a Municipal Engineer's Office.

The successful applicant will be required to pass satisfactorily a medical examination.

If required, housing accommodation will be provided for the successful married applicant.

Applications, on forms obtainable from me, to be returned by the 9th APRIL, 1960.

Canvassing disqualifies.

ERNEST HUTCHINSON,
Town Clerk.

Town Hall,
Castleford.

WILTON BOROUGH COUNCIL.

40 LOW-COST HOUSES, BULBRIDGE, WILTON.

CLERK OF WORKS REQUIRED immediately for this Contract. Applications are invited from suitably experienced and qualified men. Knowledge of cross wall type of construction would be an advantage. Applications, with full details of past experience, age and salary required, should be sent in writing to the Council's Architects, MESSRS. ROBERT POTTER and RICHARD HARE, F/A.R.I.B.A., De Vaux House, The Close, Salisbury, Wilts.

GEO. LEOPOLD LUSH,
Town Clerk.

Municipal Offices,
Kingsbury Square,
Wilton.
14th March, 1960.

CITY OF PLYMOUTH.

APPOINTMENT OF SENIOR ASSISTANT ENGINEERS, A.P.T. V (£1,220-£1,375).

APPLICATIONS are invited for the ABOVE APPOINTMENT from Engineers experienced in the preparation and execution of major highway schemes. They must also be experienced in handling and controlling staff. Applicants must be Chartered Civil or Municipal Engineers.

It is anticipated that housing accommodation can be made available, and it is the practice of the Council to pay half the cost of household removal expenses up to a maximum contribution of £25.

Age limit 40 (or 45 if serving with another Authority).

Applications, on forms obtainable from the undersigned, to be returned by THURSDAY, 7th April, 1960.

J. ACKROYD, B.Sc., M.I.C.E.,
M.I.Mun.E.,
City Engineer and Surveyor.

The Guildhall,
Plymouth.

GWYNEDD RIVER BOARD.

JUNIOR ENGINEERING ASSISTANT. SALARY A.P.T. I (£610-£765).

APPLICATIONS invited for the ABOVE-MENTIONED APPOINTMENT in the Engineer's Department.

Application Form and further particulars from CLERK OF THE BOARD, Highfield, Caernarvon.

Closing date: 11th APRIL, 1960.

APPOINTMENTS VACANT

WEST SUSSEX COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT on the permanent staff of an ASSISTANT ENGINEER, A.P.T. IV (£1,065-£1,220).

Candidates must be Associate Members of the Institution of Civil Engineers and/or the Institution of Municipal Engineers, and have had considerable experience in the preparation of highway improvement schemes, together with supervision of works. Experience of bridge work would be an advantage.

Initially the successful candidate will be seconded to Crawley Development Corporation for work on highway construction in the New Town, after which he will be engaged on major improvement projects in West Sussex.

Application forms may be obtained from the County Surveyor, County Hall, Chichester, and must be returned to him, duly completed, not later than 11th APRIL, 1960.

T. C. HAYWARD,
Clerk of the County Council.

HAMPSHIRE COUNTY COUNCIL.

ROAD FOREMAN REQUIRED by the County Surveyor's Department for work in the Kingsclere Division, Miscellaneous Grade IV, £590-£650. A house is available at Burghclere. Candidates should be not more than 45 years of age and must have had first-class experience in the handling of men and road construction work. A motor van will be provided and maintained by the County Council. The post is pensionable and subject to a satisfactory medical report. In approved cases the County Council assists with removal and separation allowances.

Alternatively, applications from men, preferably with some experience of road construction work, for training as road foreman, would be considered, starting at £10 2s. 1d. per week.

Application forms may be obtained from the COUNTY SURVEYOR, The Castle, Winchester, and must be returned by the 9th APRIL, 1960.

COUNTY BOROUGH OF ST. HELENS.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS:—

(a) Two Principal Assistant Engineers. Salary A.P.T., Grade V (£1,220-£1,375).
(b) Assistant Engineer. Special Grade (£785-£1,070).
(c) Engineering Assistant. Salary A.P.T., Grade II/III (£765-£1,065).
(d) Engineering and Surveying Assistant. Salary A.P.T., Grade I/II (£610-£880).

Applicants for the appointment (a) must be chartered civil or municipal engineers with wide experience in redevelopment schemes, highways construction and main drainage works.

Applicants for appointment (b) should be suitably qualified and have had at least five years' experience.

An extensive programme of varied capital works is in hand.

The appointments will be subject to the N.J.C. Conditions of Service, the provisions of the Local Government Superannuation Acts and the passing of a medical examination.

The Council operate a five-day working week.

Applications, clearly indicating the appointment applied for and stating age, full details of appointments held and experience, together with the names and addresses of two referees, should reach the undersigned not later than MONDAY, 11th April, 1960.

M. WARD,
M.I.Mun.E., M.T.P.I., A.M.I., Struct.E.,
Borough Engineer and Surveyor

Town Hall,
St. Helens.

BOROUGH OF CASTLEFORD.

APPOINTMENT OF ASSISTANT ARCHITECT.

Salary Grade A.P.T. I (£610-£765). Commencing salary according to qualifications and experience. N.J.C. Service Conditions; superannuable terminable on one month's notice either side.

Applicants should have passed the Intermediate R.I.B.A. Examination or its equivalent at one of the recognised schools of architecture.

The successful applicant will be required to pass satisfactorily a medical examination.

If required, housing accommodation will be provided for the successful married applicant.

Applications, on forms obtainable from me, to be returned by the 9th APRIL, 1960.

Canvassing disqualifies.

ERNEST HUTCHINSON,
Town Clerk.

Town Hall,
Castleford.

ST. FAITH'S AND AYLSHAM RURAL DISTRICT COUNCIL.

HELLESDON SEWERAGE.

ASSISTANT RESIDENT ENGINEER.

APPLICATIONS are invited for the APPOINTMENT of ASSISTANT RESIDENT ENGINEER for the supervision of the construction of approx. 14 miles of sewers at Hellesdon, Norfolk.

Salary £800 per annum, with allowance for use of car. The appointment, subject to satisfactory service, is expected to last for about 18 months.

Applicants, who have had experience of similar works, should apply in writing to the undersigned not later than 4th APRIL, 1960, giving full details of age, qualifications and previous appointments, together with the names of two persons to whom reference can be made.

LEONARD C. GOOSE,
Clerk of the Council.

Tudor Hall,
Rose Lane,
Norwich,
NOR. 11B.
18th March, 1960.

UPPER WITHAM INTERNAL DRAINAGE BOARD.

GENERAL FOREMAN.

APPLICATIONS are invited for the ABOVE POSITION, duties to include the supervision of drain maintenance works by direct labour and contract within the Board's area of 44,000 acres, together with inspection of land drainage pumping stations and control structures.

A salary of £12 per week will be paid, and previous experience on land drainage works would be an advantage. Transport will be provided by the Board, and the successful applicant will be required to reside in or near Lincoln.

Application Forms are available from the undersigned, and must be completed and returned not later than MONDAY, 11th April, 1960.

H. BARNATT, A.M.I.C.E.,
Engineer to the Board.

20 Orchard Street,
Lincoln.

APPOINTMENTS VACANT

GOVERNMENT OF SARAWAK.

ROAD ENGINEERS.

PUBLIC WORKS DEPARTMENT.

Qualifications: Candidates, aged 28-50, must either have a university degree or equivalent recognised by the Institution of Civil Engineers and two years' experience, or have passed or be otherwise exempt from Parts I and II of the final examinations of the Institution of Civil Engineers and have not less than five years' experience on civil engineering work. Some experience in soil mechanics is required.

Duties include working ahead of a road construction team to advise on sites of suitable materials for fill and for road sub-base, taking charge of a section of a team and directing and organising local labour.

Terms: On contract for one tour of three years in the first instance, with gratuity on satisfactory completion of engagement.

Emoluments in scale £1,386-£2,324 per annum.

Free passages, generous home leave, education allowance, income tax. Apply DIRECTOR OF RECRUITMENT, Colonial Office, London, S.W.1. Give full name and age and brief details of qualifications and experience. Quote BCD112/24/05/D14.

BOROUGH OF BECCLES.

RESIDENT ENGINEER—
ERECTION OF WATER TOWER.

APPLICATIONS are invited for the ABOVE APPOINTMENT, which is expected to last for about 12 months.

Applicants must have had experience in major works of reinforced concrete.

Salary within A.P.T. Grade IV (£1,065-£1,220 per annum).

Applications, giving particulars of previous experience and the names of two referees, should reach me by MONDAY, 2nd April, 1960.

F. W. LEAH,
Town Clerk.

Municipal Offices,
Beccles.

BOROUGH OF SHREWSBURY.

GENERAL ENGINEERING ASSISTANT.

APPLICATIONS are invited for the ABOVE APPOINTMENT on the PERMANENT STAFF of the Borough Surveyor at a salary within the Special Grade (£785-£1,070 per annum), commencing according to qualifications and experience.

Applicants must be suitably qualified and have experience of civil or municipal engineering design and construction.

Housing accommodation will be provided and payment of removal expenses will be considered.

Applications, stating age, qualifications, experience, and names of two referees, to be sent to the BOROUGH SURVEYOR, Guildhall, Shrewsbury, by WEDNESDAY, 6th April, 1960.

S. R. H. LOXTON,
Town Clerk.

BOROUGH OF SHREWSBURY.

CLERK OF WORKS (ENGINEERING).

APPLICATIONS are invited for the ABOVE APPOINTMENT on the PERMANENT STAFF of the Borough Surveyor at a salary within A.P.T. II (£765-£880 per annum), commencing according to qualifications and experience.

Applicants must be competent to supervise construction of roads and sewers, and civil engineering works generally.

Housing accommodation will be provided and payment of removal expenses will be considered.

Applications, stating age, qualifications, experience, and names of two referees, to be sent to the BOROUGH SURVEYOR, Guildhall, Shrewsbury, by WEDNESDAY, 6th April, 1960.

S. R. H. LOXTON,
Town Clerk.

CITY OF OXFORD.

WATER DEPARTMENT—
INCENTIVE BONUS SCHEME.

MALE CLERK REQUIRED. Duties include working at site offices in connection with an experimental incentive bonus scheme for laying water mains, and general clerical duties at the Water Department's Offices. Training given in work study and bonus scheme operation. Commencing salary according to age and experience or educational qualifications, maximum £595 per annum. Apply in writing to the City Water Engineer, 65 St. Aldate's, Oxford, giving age, experience and names and addresses of two referees, or enclose copies of two recent testimonials.

HARRY PLOWMAN,
Town Clerk.

THE CHESHIRE RIVER BOARD.

BIRKET AND FENDER IMPROVEMENT SCHEME—
MORPETH BRANCH DOCK.

RESIDENT ENGINEER.

APPLICATIONS are invited for the TEMPORARY APPOINTMENT of RESIDENT ENGINEER to supervise the construction of a pumping station in a reclaimed portion of the Morpeth Branch Dock, Birkenhead, diversionary works to the Great Culvert, a discharge culvert constructed in tunnel in the dock wall and the erection of pumping plant.

Salary £1,800 per annum for the duration of the appointment, which is expected to be three years, commencing mid-1960.

Conditions of Service as Parts 2, 4 and 5 only of the Scheme of Conditions of Service issued by the National Joint Council for Local Authorities. Administrative, Professional, Technical and Clerical Staffs.

Applications, endorsed "Resident Engineer," giving full particulars of age, qualifications, experience, and also the names of two persons to whom reference can be made, should reach the undersigned not later than 4th APRIL, 1960.

SANDFORD FAWCETT AND PARTNERS,
Consulting Civil Engineers.

53 Victoria Street,
Westminster,
London, S.W.1.
15th March, 1960.

QUANTITY SURVEYOR.—Applications invited from fully trained Surveyors by a building and civil engineering contractor with headquarters in the Midlands, to operate over group of large contracts in the preparation of monthly certificates and variations for final accounts. The position is permanent, with a good salary, and there is a pension and bonus scheme. Write in confidence to Box V.1501, "The Contract Journal."

YOUNG experienced ASSISTANT CIVIL ENGINEER REQUIRED urgently for setting out and site supervision duties on estate development schemes and civil engineering contracts. Age about 25, and a starting salary of not less than £750 per annum is envisaged.—Reply, in confidence, to Box V.1425, "The Contract Journal."

APPOINTMENTS VACANT

W. AND C. FRENCH, LTD., urgently REQUIRE QUANTITY SURVEYORS, aged 25-35, with experience of civil engineering and building contracts, for site work within a radius of 25 miles of Buckhurst Hill.—Apply in writing, stating age, experience, and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex.

EXPERIENCED LANDSCAPE FOREMAN REQUIRED to carry out contracts in Lancashire and Cheshire. Must be able to handle labour and hold current driving licence.—Write Box V.1493, "The Contract Journal."

MEDIUM-SIZED COMPANY

In the building and civil engineering industry REQUIRE the following:—

PLANNING ENGINEER

To plan housing, flats, shops and some engineering works. Candidates should have a technical qualification of some standing in building or civil engineering, and have some experience of the applications of modern management techniques in the industry. This is a new appointment and offers considerable scope for a suitable candidate.

FIRST-CLASS ESTIMATOR

For building contracts. Applicants must have had first-class experience and be capable of estimating for contracts of every size and description. This vacancy is being created by the expansion of the company, and the estimator will play his part in the future planned expansion.

PLANT MANAGER

To take charge of all its plant. The plant manager will be required to maintain the plant in first-class condition, and will be responsible for both "hiring out" which is excess to the company and to "hire in" plant as requested. The right man will be given considerable freedom to develop all aspects of the job, and should have a minimum qualification of H.N.C. in mechanical engineering and supervision in the hire and maintenance of contractors' plant.

Sites are in the Home Counties, and the company's head office is in the West End. Four-figure salaries are envisaged for the above appointments from applicants not over 40 years. Appointments will be permanent after a probationary period of six months, when applicants will be eligible for the company's sickness insurance scheme, and an excellent pension scheme is in operation.—Reply, in confidence, to:

BOX V.1477, "THE CONTRACT JOURNAL."

ROBERT M. DOUGLAS (CONTRACTORS), LTD., REQUIRE QUANTITY SURVEYORS for civil engineering and building works in any part of Great Britain. Candidates must have had experience in interim and final valuations and be competent to negotiate at high level on final accounts upwards of £100,000. Pension scheme and excellent prospects for men of initiative and drive. Remuneration by arrangement.—Write, stating age, qualifications, and experience, to 395 George Road, Birmingham, 23.

DRAUGHTSMAN REQUIRED, with reinforced concrete and formwork detailing experience. This is a permanent appointment with good prospects. Applicants must give details of age, experience and qualifications, and salary required, and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

SENIOR ASSISTANT CIVIL ENGINEER REQUIRED by contractors, for work in North-West Scotland. Good prospects.—Details of experience and salary required to Box V.1495. "The Contract Journal."

CIVIL ENGINEERING contractors REQUIRE AGENT for contract in the Western Highlands. Good salary offered, with car and bonus.—Write particulars of experience, with references, to Box V.1496, "The Contract Journal."

MARTIN COWLEY, LTD.

Applications are invited from fully qualified and experienced personnel to fill the following vacancies on contracts throughout the United Kingdom:

PROJECT MANAGERS
SENIOR AGENTS
SENIOR ENGINEERS
JUNIOR ENGINEERS
GENERAL FOREMEN
SITE OFFICE MANAGERS
WAGES/COST CLERKS
TIMEKEEPERS
MATERIAL CHECKERS

Applicants must be fully mobile.—Apply, in writing with full details of past career, to:

MARTIN COWLEY, LTD.,
112 Jermyn Street, London, S.W.1.

AN expanding group of companies specialising in aggregates and ready mixed concrete, invites applications from men who can show sales capacity with business acumen and experience of the market. Must be confident of accepting responsibility for establishing concrete and gravel sales in connection with new plants and areas. Age should be between 30 and 40, and salary will be commensurate with experience and ability.

Write Box V.1406, "The Contract Journal."

ASSISTANT CIVIL ENGINEER, with Parts 1 and 2 of I.C.E., REQUIRED by building and civil engineering contractors. Appointment based in London initially. Experience in concrete control and in-situ piling required. Pension scheme and excellent prospects.—Write Box V.1505, "The Contract Journal."

D. T. BULLOCK AND CO., LTD.

seek to appoint a CIVIL ENGINEER/SUB-AGENT for works of a varied and interesting nature. The successful applicant will preferably be qualified, age 22 to 30, with previous contracting experience. He will be joining a team whose standards are very high, and the prospects of advancement are excellent. Apply in writing to:

Managing Director,
D. T. BULLOCK AND CO., LTD.,
Northgate, Aldridge, Staffs.

MEASURER REQUIRED by tarmacadam and asphalt company in London area. Should be capable of measuring up and finalising surfacing contracts and minor preparation works, and in submitting final bills. — Write Box V.1485, "The Contract Journal."

SITE CASHIER/TIMEKEEPER.—Applications invited by national building contractor, for large contract in Birmingham area. Fully experienced in handling site wages, checking material invoices, and prepared to be covered by fidelity insurance. Top salary, etc., offered to suitable man.—Write in confidence to Box V.1502, "The Contract Journal."

APPOINTMENTS VACANT

SENIOR and ASSISTANT BUILDING SURVEYORS REQUIRED in the London, Home Counties and Southern Counties areas. These positions are permanent, progressive and superannuated.—Write, giving full details experience, age, salary required, and area preferred, to the Chief Surveyor, SIR LINDSAY PARKINSON AND CO., LTD., 6 Lambeth Road London, S.E.1.

A VACANCY exists with well-known building and civil engineering contractors in Birmingham for a SENIOR SURVEYOR with sound knowledge and experience of interim valuations and final accounts. A salary range of £1,250/£1,500 will be offered to the applicant of proven ability, possessing initiative and drive. Pension and bonus schemes in operation Write full particulars to Box V.1424, "The Contract Journal."

FOREMEN, GANGERS and KEY MEN (PAVIORS, TIMBERMEN, PIPELAYERS, etc.) for road and sewer contracts, London and Home Counties. Permanent employment. Bonus.—PERCY BILTON, LTD. (J.R.M.), Bilton House, 54/58 Uxbridge Road, Ealing, W.5. Tel.: Ealing 7777.

BUILDING MANAGER

To take charge of the building department of national contractors operating mainly in the London area. Thorough knowledge of modern building is essential, together with administrative ability in the control of a large department. Applicants must have considerable energy and the capacity for hard work, together with the ability to instil enthusiasm and team spirit in others. Commencing salary will be in the range of £2,000-£3,000, depending on experience, together with the usual bonus and pension arrangements. Applications to be addressed to the Managing Director, which will be treated in the strictest confidence. Own staff already informed.

WRITE BOX V.1413, "THE CONTRACT JOURNAL."

SITE ENGINEERS REQUIRED for roadworks and main drainage contracts in Home Counties. Good prospects for keen young men who are competent and experienced in setting-out, etc.—Apply in writing, giving details of training and experience, age, and salary required, to Box V.1448, "The Contract Journal."

ENGINEER/AGENT for general supervision of private street works and general roadworks. Progressive situation with our rapidly expanding public works division.—Apply J. S. BISHOP AND CO., LTD., 430 Bath Road, Slough, Bucks.

YOUNG ENGINEER/AGENT REQUIRED by civil engineering contractors mainly operating in the Hants., Berks. and Oxon areas. Permanent and progressive post, with superannuation scheme in operation. Write in confidence, stating age, full details of experience, and salary required, to Box V.1472, "The Contract Journal."

JUNIOR ENGINEERS REQUIRED for site work near London and in estimating department. Permanent, progressive position.—Apply, giving details of training and experience, to RUDDOCK AND MEIGHAN, LTD., Burford House, Harrow View, Wealdstone, Middlesex.

SENIOR SITE AGENTS.

SIR LINDSAY PARKINSON AND CO., LTD., invite applications for the above positions. Applicants, who must be fully experienced in carrying out major building contracts of all types, should forward all details to:

Building Director,
SIR LINDSAY PARKINSON AND CO., LTD.,
6 Lambeth Road, London, S.E.1.

RUDDOCK AND MEIGHAN, LTD., have a vacancy for an **ENGINEER/AGENT.** Candidates need not necessarily be qualified but must have had good experience in general civil engineering works. Permanent position and good opportunity for advancement. Pension scheme in operation.—Apply, giving details of age, experience, and indication of salary, to Burford House, Harrow View, Wealdstone, Middx.

SITE ENGINEER.—Vacancy in Birmingham area on large contract for Site Engineer to join contract staff of a national civil engineering and building contractor. Duties at first will consist of setting-out, levels, site engineering works, etc. Good prospects for rapid promotion to the right man, and would suit a young, keen Engineer with ambition.—Write in confidence to Box V.1500, "The Contract Journal."

CIVIL ENGINEERS

Old-established civil engineering contractors engaged in the construction of impounding reservoirs, sea defence works, large-diameter pipe lines, trunk sewers, tunnels and other works of heavy construction, REQUIRE:

ENGINEER AGENTS
SENIOR SITE ENGINEERS
PLANNING ENGINEERS
ESTIMATING ENGINEERS

For work on contracts and at head office. The appointments are permanent and pensionable, and offer considerable scope for advancement in an expanding organisation. Salary will be by negotiation, depending on experience of applicant and, where appropriate, assistance will be given in provision of accommodation.—Apply to:

LEHANE, MACKENZIE AND SHAND, LTD.,
Matlock, Derbyshire.

SURVEYOR.—Experienced Surveyor, used to handling medium-size contracts from commencement to final account. BONUS SURVEYOR, for contracts in London area. Experience man required, used to working on own initiative. — Apply in writing to the Personnel Director, TOKEN CONSTRUCTION CO., LTD., 68 Mount Street, London, W.1.

SITE AGENTS REQUIRED for school and telephone exchange building contracts, North Wales and Cheshire. Applicants please do not reply unless capable of high-class, economic work. Advancement to Contracts Manager in due course. Pension scheme. State age, experience, and salary required, to Box V.1473, "The Contract Journal."

PLANT HIRE. — Nationally known organisation REQUIRES men with brains and plant experience for training as REPRESENTATIVES and DEPOT MANAGERS. Age group 25-40. A combined knowledge of contracting, plant in general, and the commercial aspect of the business would be desirable, but not essential. Replies will be treated in strict confidence and given every consideration.—Write Box V.1463, "The Contract Journal."

APPOINTMENTS VACANT

AGENTS.—Civil engineering contractors wish to contact men of proved ability in the field of heavy construction contracts who consider themselves capable of taking charge of sites with an annual turnover up to £½m.—Brief particulars, in the first instance, to Box V.1394, "The Contract Journal," quoting Ref. DEF/3.

EXPERIENCED SITE ENGINEER REQUIRED, capable of setting-out and general management of medium-sized road and sewer contracts in Central Sussex. Retired person considered. —. Please write, giving details of experience, and salary required (recent references essential), to Box V.1427, "The Contract Journal."

SENIOR AGENTS REQUIRED to control civil engineering contracts in North-East and North-West England. Initiative, cost control essential. Pension scheme in operation. Good prospects for suitable applicants.—TARSLAG, LTD., Stockton-on-Tees.

THE LONDON FERRO-CONCRETE CO., LTD.

As a result of reorganisation and a planned programme of rapid expansion, this company now REQUIRES the following:

SURVEYOR.
Aged 25/40, with a thorough knowledge and experience of preparing interim valuations and final accounts.

ESTIMATOR.
Aged 25/40, with at least five years' experience of estimating with building and civil engineering contractors.

These positions offer first-class opportunities for promotion to ambitious young men, and applications, stating age, experience, etc., should be sent to:

The Chief Estimator,
THE LONDON FERRO-CONCRETE CO., LTD.,
Maxted Road, Hemel Hempstead.

ENGINEERING ASSISTANTS REQUIRED by West Country consultants, any grade in salary ranges £600-£1,000 p.a., according to age and experience. Write Box V.1488, "The Contract Journal."

SITE ENGINEER REQUIRED for motorway contract for six months' duration. Interim accounts, progress records, etc.—Write, giving details, including previous experience (student considered), to GEORGE SHEPPARD (HATFIELD), LTD., St. Albans Road, Hatfield, Herts.

CALWELD DRILL DRIVERS REQUIRED by piling contractor. Must be prepared to travel. Subsistence allowance paid.—Write details age and experience to Box V.1491, "The Contract Journal."

BUYER REQUIRED by progressive firm of building and civil engineering contractors in North-West. Good prospects for first-class man.—Details of experience, age, and salary required, to Box V.1474, "The Contract Journal."

CONTRACTS MANAGERS.

We REQUIRE two men to fill these positions of importance, preferably in age group 35 to 45, with experience of running several contracts operating concurrently; minimum of six sites, running into six figures, in total. A successful production record with special regard to quality of finish on a wide range of buildings must be coupled with a genuine interest in modern management techniques, and ability to use them. The company is well established and progressive, with a reputation for high-class work and strict adherence to contract completion dates, with a large private housing programme laid down for the next two to three years. The positions offered are based on our Head Office at Evesham, with a permanency to the right men. Substantial salary and contributory pension scheme in operation. Written applications, which will be dealt with in strictest confidence, should state age, outline of experience, approx. salary required, and should be addressed to:

Assistant Managing Director,
WHEELER AND MANSELL, LTD.,
Building Contractors,
P.O. Box No. 8, Lime Street, Evesham, Worcs.

SENIOR and JUNIOR ENGINEERS and MEASURING SURVEYORS are REQUIRED for building contracts in England. These are permanent appointments with good prospects. Bonus and superannuation schemes in operation.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications, and salary required, and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LIMITED, Ettingshall, Wolverhampton.

SENIOR QUANTITY SURVEYOR REQUIRED for head office appointment. Applicants must have extensive experience in civil engineering and building construction work. Salary commensurate with experience; bonus and superannuation scheme in operation. Applications should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

CIVIL ENGINEER

REQUIRED for expanding Nigerian subsidiary. Engineer with experience of cement soil stabilisation for road contracts in Nigeria. Preferably A.M.I.C.E., with minimum five years' site experience with contractors in the U.K. or abroad. Free bachelor accommodation. Attractive salary and prospects. Reply, with full particulars, to:

Civil Engineering Director,
SIR LINDSAY PARKINSON AND CO., LTD.,
6 Lambeth Road, London, S.E.1.

ENGINEER/AGENT REQUIRED for large drainage contract in North-East. Applicant must have extensive experience of similar work in difficult ground conditions involving steel sheet piling and Wellpoint dewatering. A substantial salary will be paid to man with requisite qualifications, and position is permanent. Write, with full details, to Box V.1497, "The Contract Journal."

THE NORWEST CONSTRUCTION CO., LTD., REQUIRE a fully experienced time-served FITTER for their plant depot at Netherton. The plant workshops are completely new and equipped with the most modern and up-to-date facilities. Applicants should be familiar with all types of modern civil engineering plant. First-class working conditions exist; a canteen is available, and there is opportunity of high bonus earnings.—Applications in writing to The Norwest Construction Co., Ltd., Ruthven Road, Litherland, Liverpool, 21 (marked for the attention of the Plant Manager).

APPOINTMENTS VACANT

PLANT HIRE MANAGER for new depot at Bishop's Waltham, near Southampton. Speciality: lorry-mounted cranes. Sound knowledge of trade and connections. Excellent prospects for the right man. Apply in writing only, with full particulars of past career, experience and income, to Managing Director, WOOD, PRITCHETT AND PARTNERS, LTD., Mechquip House, Goldhawk Road, London, W.12.

F. J. C. LILLEY (CONTRACTORS), LTD., have vacancies for JUNIOR and SENIOR CIVIL ENGINEERS on tunnel contracts in London and Blackpool. — Application should be made to the Assistant General Manager, Great Cambridge Road, By Church Street, London, N.9.

CONTRACTORS undertaking considerable expansion programme have vacancies for the following experienced staff to work from Cardiff office: QUANTITY SURVEYORS, ESTIMATOR, AGENTS, BUYER, COST CLERKS, GENERAL FOREMAN. Participation in pension scheme after 12 months. Present staff notified.—Details of age, experience, and salary required, to Box V.1519, "The Contract Journal."

SENIOR AGENT

National contractors have vacancy in their Civil Engineering Division for a **SENIOR AGENT** to take control of major prestressed concrete project in the South of England. Applicants must have considerable experience in the control of major civil engineering works in excess of £½m., with particular reference to reinforced and prestressed concrete construction. The appointment is permanent and pensionable, and the successful applicant once established will become a key man in the organisation. A substantial salary, together with bonus scheme, will be offered. Own staff informed. Full particulars to:

BOX V.1514, "THE CONTRACT JOURNAL."

LANDSCAPE MANAGER to take charge of all contracts in London and Home Counties. Applicants must possess a wide knowledge and experience of landscape design and construction at managerial level. Excellent prospects.—Write for interview to PAUL TEMPLE, Hampton, Middlesex.

AGENT, FOREMEN and GANGERS REQUIRED for civil engineering contracts in the North-West (Warrington base). Must be prepared to travel. Write full details of previous experience, and salary required, to Box V.1512, "The Contract Journal."

SITE ENGINEERS REQUIRED for roads, sewers and bridge contracts. Must be capable of supervising contracts, instrument work, measurements and valuations. These are progressive posts with salary according to qualifications and experience.—Applications in writing to CHAPMAN AND DOWD, LTD., Butlin Street, Birmingham, 7.

COMPETENT QUANTITY SURVEYOR REQUIRED. Primary duties consist of taking-off. Good salary and conditions of employment with superannuation scheme and life insurance.—Apply in writing to FELL CONSTRUCTION CO., LTD., 20/30 Lawefield Lane, Wakefield, Yorkshire.

BUYER REQUIRED for building and civil engineering contractor, Birmingham. Must be fully conversant with all trades, and able to order from drawings. Write, stating age, experience, and salary required, to Box V.1518, "The Contract Journal."

EXPERIENCED CIVIL ENGINEER

able to speak and read Spanish fluently, REQUIRED by major U.K. civil engineering contractors. Preferably qualified Engineer with at least 10 years' experience with contractors. First-class conditions and prospects in rapidly expanding organisation. All replies will receive immediate attention and be treated in strict confidence. No approach whatsoever will be made to any employer prior to interview of the candidate, and the advertising company's own staff have been advised. Reply to:

KF BOX CJ121 L.P.E.,
Romano House, 399/401 Strand, London, W.C.2.

YOUNG CIVIL ENGINEER REQUIRED. The work is interesting and varied, and duties will include setting-out, taking-off, preparation of drawings and assistance in preplanning. A knowledge of reinforced concrete detailing and design would be an advantage. The successful applicant will require to work from head office, and a car will be provided. This is a permanent, pensionable appointment and affords good prospects to the successful applicant. — Applicants, who should be aged 25 to 30, should apply, stating present salary, in writing to CLUGSTON CAWOOD, LTD., St. Vincent House, Normanby Road, Scunthorpe.

EXPERIENCED GANGERS WANTED for sewer contract in Hertfordshire. Permanent. Good rates and subsistence paid to suitable applicants. Only first-class men need apply.—Apply Site Office, S. H. LEACH, LTD., Bovingdon, Herts. 2146.

GENERAL FOREMAN REQUIRED for contracts in Leicester area. Applicants must be fully experienced in carrying out major building contracts of all types.—Please reply, stating fullest details possible, to MESSRS. A. A. STUART AND SONS (GLASGOW), LTD., Colwick Estate, Colwick, Nottingham.

ENGINEER/AGENT

REQUIRED for interesting railway modernisation contract. Preferably qualified, with previous experience as Contractor's Agent on civil engineering works. Excellent salary and prospects. Reply, with details of experience and qualifications, to:

KF BOX CJ120 L.P.E.,
Romano House, 399/401 Strand, London, W.C.2.

SURVEYORS REQUIRED for contracts in Leicester area. Must be fully conversant with site measurement, preparation of interim certificates and final accounts.—Please reply, giving details of experience, etc., to MESSRS. A. A. STUART AND SONS (GLASGOW), LTD., Colwick Estates, Colwick, Nottingham.

ASSISTANT AREA MANAGER REQUIRED for general road works, Southern Area. Knowledge and experience of surfacing, estimating and supervision of contracts. Permanent position. Staff pension scheme. etc.—Write, giving age, details, and salary required, to Box V.1525, "The Contract Journal."

CIVIL ENGINEER, under 30, qualified A.M.I.C.E. and willing to travel, REQUIRED by old-established firm of civil engineering contractors specialising in piling. Good prospects for right man.—Write Box V.1524, "The Contract Journal."

APPOINTMENTS VACANT

ASSISTANT TO PLANT MANAGER WANTED by London plant hire company. Good prospects for successful applicant.—Write, giving full details, to Box V.1523, "The Contract Journal."

GENERAL FOREMEN REQUIRED for contracts in the London district. — Apply THOMAS BATES AND SON, LTD., Church Road, Harold Wood, Romford, Essex.

ASSISTANT QUANTITY SURVEYORS for general road works, Southern Area. Experienced in site measuring and final bills. Good progressive positions. Staff pension scheme, etc.—Write, giving age, experience, and salary required, to Box V.1526, "The Contract Journal."

ESTIMATOR REQUIRED for medium-sized gas, water G.P.O. and sewer work in London and Home Counties. Able to bring to final account. Must have good references. — Write, stating experience, and salary required, to Box V.1539, "The Contract Journal."

COST AND BONUS SURVEYORS

REQUIRED for site work in London area. Previous experience of measuring, calculation of bonus from labour targets essential. Attractive salaries and profit-sharing bonus to right men. Subsidised travel. Superannuation and share investment schemes in operation. Write fully, stating age, experience, and present salary. to:

Personnel Manager,
WATES, LIMITED,
1260 London Road, Norbury, S.W.16.

ASSISTANT CHIEF CIVIL ENGINEER REQUIRED by large organisation of national repute operating from Midlands office. Technical qualification: B.Sc., and A.M.I.C.E. Age approx. 40 years, with proven record in contracting business. Initiative and personality essential. Excellent opportunity with attractive salary, pension and bonus scheme.—Write full details, marking applications "W/O," Box No. DL.5606, c/o Whites, 72 Fleet Street, London, E.C.4.

TURRIFF CONSTRUCTION CORPORATION, LTD., REQUIRE SITE CLERK/CASHIERS for expanding contracts. Fully experienced building/civil engineering Long-term prospects, with good conditions.—Write Group Personnel Manager, Budbrooke Road, Warwick.

LARGE Midland contractors are enlarging their design office dealing exclusively with shuttering and formwork. Good opportunities and future for DESIGNERS with experience in modern shuttering techniques and able to produce working drawings to give economic results. Attractive salaries, bonus and pension scheme. Modern office in pleasant surroundings.—Write Box No. DL.5592, c/o Whites, 72 Fleet Street, London, E.C.4.

DRAUGHTSMAN REQUIRED for plant department of civil engineering contractors. Age 20-30. Apply in writing to Director (Equipment), WEST'S PILING AND CONSTRUCTION CO., LTD., Bath Road, Harmondsworth, West Drayton, Middlesex.

ASSISTANT SITE SURVEYOR.

This appointment presents excellent opportunities for a progressive career with a national organisation, and for obtaining wide experience in the use of modern management and planning techniques on building sites. Applications are invited from young men, preferably aged 23-29, with experience of site measurement and the preparation of interim and final certificates. Please write to:

The Personnel Officer,
RICHARD COSTAIN, LTD.,
111 Westminster Bridge Road, London, S.E.1.

MICHIGAN (GREAT BRITAIN), LTD. — Owing to expansion, further vacancies exist for experienced SALES REPRESENTATIVES who have handled tractor shovels and rubber-tyred earthmoving equipment. Areas to be covered include South-West England, Midlands and East Anglia. Good salary. Excellent prospects. Pension scheme.—Apply with fullest details to the Personnel Officer (Ref. Mich-Sales), P.O. Box 3, Camberley, Surrey.

BUILDERS' ESTIMATING ASSISTANT, aged 20/25 years, REQUIRED at a head office of medium-sized contractor to prepare sub-contracts and material inquiries, and to obtain quotations. The position, which carries a good salary, requires initiative and the ability to work under minimum supervision. It offers the opportunity for basic training in estimating for all types of building contracts. Excellent office accommodation and canteen facilities. — Apply in writing to the Secretary, LAVENDER McMILLAN (CONTRACTORS), LTD., 54 Cheam Common Road, Worcester Park, Surrey.

AGENT AND SUB-AGENT

REQUIRED immediately for £250,000 civil engineering contract in Eastern England, involving general construction which includes excavation, reinforced and precast concrete, etc. Applicants should preferably be between 25-35, with A.M.I.C.E. for senior post, and with relevant contracting experience. Permanent positions and excellent prospects with an expanding and well-established contracting organisation. Appropriate salaries and allowances, with participation in bonus based on production. Please write, quoting Ref. 908, to:

BOX V.1506, "THE CONTRACT JOURNAL."

SECTION FOREMEN REQUIRED by THE CEMENTATION CO., LTD., for all classes of heavy civil engineering work in the United Kingdom. Applicants should have at least five years' successful experience as Section Foreman on large to medium-sized civil engineering contracts. These positions offer good salaries and prospects for advancement. — Please write, giving age and experience, and quoting Ref. 207, to the Personnel Officer, The Cementation Co., Ltd., 20 Albert Embankment, London, S.E.11.

TAYLOR WOODROW CONSTRUCTION, LTD., REQUIRE an experienced COST CLERK, accustomed to civil engineering works, on the Hinkley Point Atomic Power Station Contract, near Bridgwater, Somerset. This is a staff appointment. Camp accommodation available.—Write to the Agent.

CONTRACTS SUPERVISOR REQUIRED. Sound experience in supervising large building and civil engineering developments. Preference will be given to candidates who have held similar positions.—Write stating age, experience, and salary required, to Box 985, c/o Geo. Murray (Advertising), Ltd., Columbia House, Aldwych, W.C.2.

APPOINTMENTS VACANT

REINFORCED CONCRETE DESIGN ENGINEERS REQUIRED for drawing office in Westminster. Prospects for training in prestressed and shell calculations.—Tel.: Trafalgar 1494.

CIVIL ENGINEERS REQUIRED on Resident Engineer's staff for water pipeline construction in Libyan coastal strip. Salaries range between £1,200 and £2,000 per annum. — Detailed applications to HOWARD HUMPHRIES AND SONS, Victoria Station House, Westminster, S.W.1, quoting Ref. No. 395.

QUANTITY SURVEYORS (Senior and Assistant) REQUIRED by British civil engineering contractor for large public works contract in West Africa.—Write brief details of experience to Box CJ162, L.P.E., Romano House, 399/401 Strand, London, W.C.2.

CIVIL ENGINEERS (Assistant) REQUIRED by civil engineering contractor for site duties on important harbour and road construction projects in West Africa. Write Box CJ161, L.P.E., Romano House, 399/401 Strand, London, W.C.2.

A. MONK AND CO., LTD.

REQUIRE the services of experienced QUANTITY SURVEYORS for major civil engineering and building contracts in the South-West Midlands, and for works administered from regional offices at London, Hull, Middlesbrough and Stamford (Lincs.). Salary according to age, experience and qualifications. Superannuation scheme in operation. Please reply, stating age, previous experience, and salary required, to the Chief Surveyor at the company's Head Office at Padgate, Warrington, Lancs. Replies will be treated in confidence.

A. MONK AND CO., LTD.,
Padgate, Warrington, Lancs.

CIVIL ENGINEER. — Young, keen Engineer REQUIRED for contract on the coast mid-Wales, near famous holiday centre. Experienced at setting-out, and opportunity to increase knowledge of piling, reinforced concrete and tidal conditions. Excellent prospects for promotion and long service. — Written applications should state training and experience to Box V.1542, "The Contract Journal."

GENERAL FOREMAN REQUIRED to take charge of civil engineering sewerage contract in Aberystwyth area. Experienced in tidal and piling work and reinforced concrete essential. Very good terms will be offered suitable man, with a continuity of work Write, stating full details of past similar experience to Box V.1543, "The Contract Journal."

CONTRACTS MANAGER.—Civil Engineer, age about 35, with personality and a real sense of urgency, REQUIRED in Surrey-Sussex area. Able to organise and take full control of a number of small/medium-sized contracts. Basic salary £1,250 p.a. Final financial remuneration entirely dependent on successful applicant's own efforts.—AUSTEN SHRIVES, LTD., Orestan Lane, Effingham, Surrey. Tel.: Bookham 3601.

EXPANDING FIRM of civil engineering contractors REQUIRES GENERAL FOREMEN to take complete charge of medium-sized contracts in Southern England. Excellent terms and prospects for experienced men. — Write, with full details, to Box V.1540, "The Contract Journal."

SIR ALFRED McALPINE AND SON, LTD.

REQUIRE SITE ENGINEERS between 20 and 30 years of age, of graduate status or with a minimum of three years' site experience, for railway terminal, factory and multi-storey contracts in the Birmingham area. Permanent appointment with superannuation scheme for right applicants. Apply:

SIR ALFRED McALPINE AND SON, LTD.,
49 Waterloo Road, Wolverhampton.

GEORGE COHEN SONS AND CO., LTD., REQUIRE for their Belfast branch an experienced REPRESENTATIVE to take charge of their contractors' plant department, which includes hire and sales. Good prospects, pension scheme after probationary period. Applications in writing, with fullest details and salary required, to Personnel Manager, 600 Wood Lane, London, W.12.

JUNIOR CIVIL ENGINEER REQUIRED for S.E.C., LTD., situated at Marlow, Bucks. Will work under direct supervision, initially on medium-sized contracts. Salary in accordance with experience and qualifications. Pension scheme. Car provided.—Please apply S.E.C., Ltd., Station Road, Marlow, Bucks.

SITE ENGINEERS REQUIRED for major London and provincial civil engineering contracts.—Write Box V.1396, "The Contract Journal."

ASSISTANT ENGINEER for work in connection with site investigations and soil mechanics laboratory. REQUIRED immediately by consulting engineers. F. R. BULLEN AND PARTNERS, Dacre House, Dean Farrar Street, London, S.W.1.

ESTIMATOR

REQUIRED, with experience of sports ground contracts. Able to work on own initiative. Car provided. State previous experience, and salary required, to:

F. FERGUSON AND SON,
Sports Ground Contractors,
Lansdowne Road, Cardiff.

SITE AGENT to carry out large-scale turfing contract in the Manchester area. Good rate of pay and subsistence allowance to suitable applicant.—Telephone Wilmslow 4444, or write immediately to GREENFIELDS NURSERIES, LTD., Fulshaw Cross, Wilmslow, Cheshire.

EAGRE CONSTRUCTION CO., LTD. — SENIOR BUILDING AND CIVIL ENGINEERING ESTIMATOR REQUIRED to work at Scunthorpe head office. Applicants required to have had previous experience as head of estimating department. Salary commensurate with experience and qualifications.—Write, stating previous experience, and salary required, to the Eagre Construction Co., Ltd., East Common Lane, Scunthorpe.

CIVIL ENGINEERS. — Excellent opportunities exist with an expanding group of civil engineering companies for qualified Engineers with site experience on our heavy construction projects in the U.K. Applications are invited from men 25-35 years of age for a number of appointments.—Please write in confidence, giving age, brief details of qualifications, and experience and quoting Ref. 113, to the Personnel Officer, THE CEMENTATION CO., LTD., 20 Albert Embankment, London, S.E.11.

APPOINTMENTS VACANT

CIVIL ENGINEERING ASSISTANT, aged 20 to 29, REQUIRED for work in Stratford-upon-Avon. We are designer-contractors offering an all-in service of design and construction of civil engineering and building work to industry and commerce in all parts of the country. Owing to expansion, we now require an additional Civil Engineering Assistant for drainage, earthworks, layouts, reinforced concrete details, etc., and applicants should have had some drawing office experience in one or more of these fields. The work will be principally in our new drawing office in Stratford-upon-Avon, but some site work will be involved. Working conditions are very good, and we consider that we can offer excellent prospects for the future. If you are interested in this position, please send details of your age, education, and experience, with an indication of approx. salary required, to the CHIEF CIVIL ENGINEER, INDUSTRIAL DEVELOPMENT AND CONSTRUCTION, LTD., Industrial House, Stratford-upon-Avon. All applications will be treated as confidential.

INSPECTORS WANTED by consulting engineers for hydro-electric works in Mid-Wales. — Write details of experience on concrete dams, driving and concrete lining of rock tunnels and shafts, to Box V.1554, "The Contract Journal."

SECTION FOREMEN REQUIRED for civil engineering contracts in various parts of U.K. Excellent prospects for men of experience and energy.—Apply in writing to THE DEMOLITION AND CONSTRUCTION CO., LTD., Civil Engineering Department, 3 St. James's Square, London, S.W.1, giving age and brief details of experience.

EXPERIENCED SITE ENGINEER REQUIRED for contracts in Southern Counties. Must be fast and accurate, be prepared to travel, and have minimum three years site experience.—State age, experience, and salary required, to LAVENDER McMILLAN (CONTRACTORS), LTD., 54 Cheam Common Road, Worcester Park, Surrey.

CONSULTING ENGINEERS with a wide variety of work on hand REQUIRE capable young ASSISTANTS. Applicants should be good Draughtsmen and have some experience in the design of sewerage works and reinforced concrete. Commencing salary btween £700-£800 p.a.—Applications, with details of training, and past and present appointments, and with the names and addresses of two referees, to JOHN DOSSOR AND ASSOCIATES, Consulting Engineers, Monk Bar Chambers, York.

For Advertisements received too late for classification see page 1521

APPOINTMENTS WANTED

ASPHALT MANAGER (43) SEEKS POST, Southern England. Complete control manufacturing, technical control and specifications, transport, maintenance, costs and sales. Contracts, estimates, laying, interim and final accounts.
Write Box W.1507, "The Contract Journal."

PLANT MANAGER, with sound administrative, cost and labour control, and experience in modern plant and methods, in addition to plant hire, SEEKS POST, preferably in Midlands or North-West, but would consider anything that has long-term possibilities.
Write Box W.1538, "The Contract Journal."

CONTRACTS MANAGER or other senior post in South/South-West by qualified ENGINEER whose 20 years' site/head office work covers driven steel and concrete piles, marine works, high standard reinforced/prestressed concrete, sewers, headings, heavy excavation and large trunk mains. Able estimator.
Write Box W.1551, "The Contract Journal."

EXCAVATION CONTRACTOR'S MANAGER/ESTIMATOR post based in South SOUGHT by ENGINEER having much practical knowledge of plant, works and tendering.
Write Box W.1552, "The Contract Journal."

CONTRACTOR'S SENIOR ENGINEER SEEKS OPPORTUNITY to use wide supervisory experience of concrete foundations, etc., pinelaying, major excavations, pile driving, etc., on site or in area/head office. £1,800 minimum salary considered. Southern Counties or South Midlands preferred.
Write Box W.1553, "The Contract Journal."

WORK REQUIRED

UPROOTING—TREES, STUMPS, HEDGES, etc. We have the most experience and all modern equipment.—T. GRAVESON, LTD., Warton, Carnforth, Lancs. Tel.: Carnforth 381 and 382.

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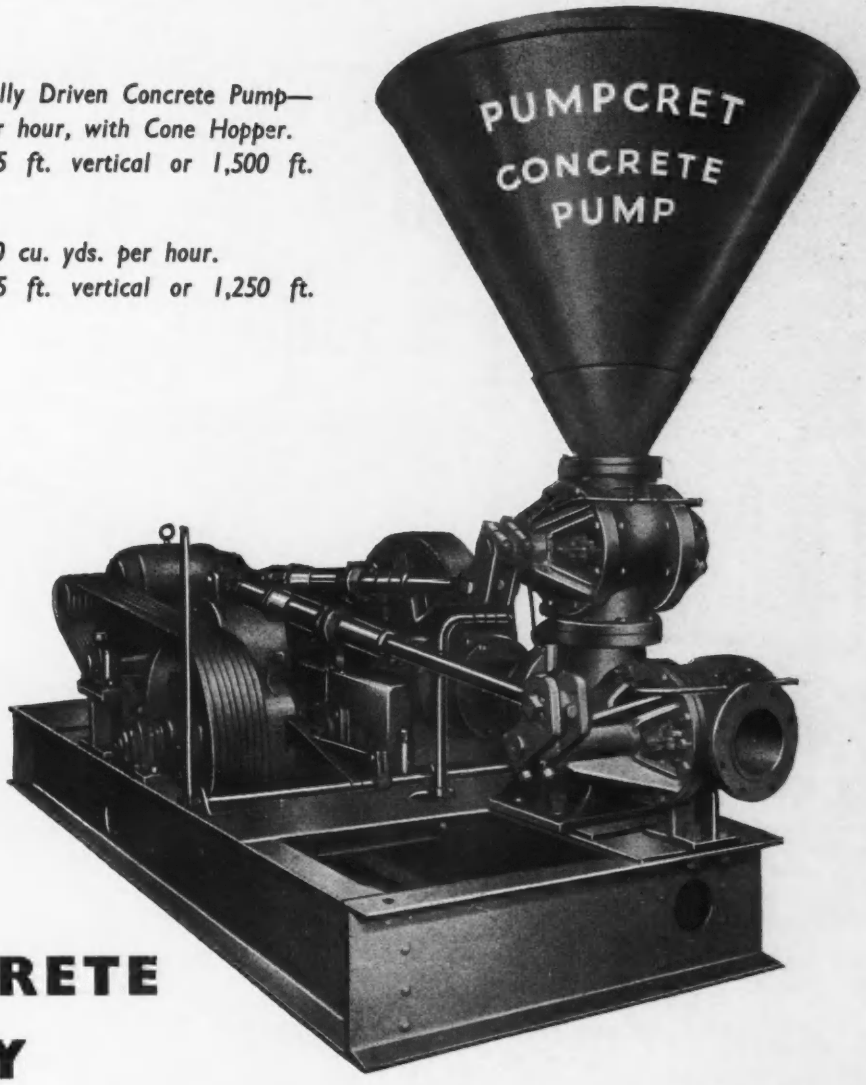

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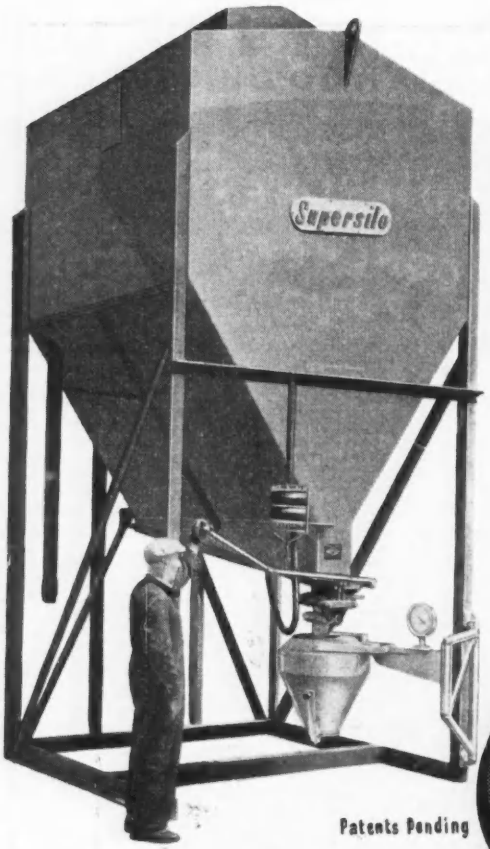

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Advertisements received too late for Classification

COUNTY BOROUGH OF BOLTON.

TENDERS invited for CONSTRUCTION of PLAYING FIELDS at PARKFIELD ROAD, comprising Regrading and Seeding of approx. 8,600 sq. yd., Sub-soil Drainage, etc.

Tender Forms from BOROUGH ENGINEER, to whom sealed Tenders to be delivered, in envelope provided by 10 a.m., 11th APR.L.

CITY OF MANCHESTER.

HEYWOOD OVERSPILL SITE.

ROAD AND SEWER CONTRACT.

TENDERS are invited for CONSTRUCTING 52,500 sq. yd. BITUMEN MACADAM CARRIAGEWAY, 9,200 lin. yd. 9in. to 33in. dia. SEWER, and all ancillary Works.

Tender documents, returnable by 19th APRIL, 1960, obtainable from the CITY SURVEYOR (Room 208), Town Hall, Manchester 2.

CITY OF BIRMINGHAM.

SALVAGE COMMITTEE.

TENDERS are invited for the SUPPLY of the FOLLOWING SPECIAL TYPE DUSTBINS for use with the new refuse collection system now in operation:—
Up to 30,000—2.5 cu. ft. capacity.
" " 1,000—3.2 " "

Full details of the requirements of the Corporation may be obtained from the General Manager, Salvage Department, Civic Centre, Birmingham, 1.

Closing date for Tenders, Noon, TUESDAY, 12th April, 1960.

T. H. PARKINSON,
Acting Town Clerk.

Council House,
Birmingham, 1.

CHISLEHURST AND SIDCUP URBAN DISTRICT COUNCIL.

NORTHCOTE ROAD HOUSING SITE
ROADS AND SEWERS.

Names and addresses of contractors desirous of TENDERING for CONSTRUCTION of 4,100 sq. yd. of CONCRETE ROADS and 800 lin. yd. of 9in. SEWERS to Engineer and Surveyor, Manor House, Sidcup, Kent, with Two Guineas deposit, before 9th APRIL, 1960.

T. W. FAGG,
Clerk of the Council.

Sidcup Place,
Sidcup,
Kent.

URBAN DISTRICT COUNCIL OF COULSDON AND PURLEY.

PRIVATE STREET IMPROVEMENT WORKS.

EWHURST AVENUE (REMAINDER OF), SANDERSTEAD.

TENDERS are invited for the ABOVE WORKS.

Bill of Quantities and Form of Tender prepared by H. M. COLLINS, A.M.I.C.E., may be obtained upon deposit of £3 3s., which will be refunded upon receipt of a bona-fide Tender.

Plan, Specification and Conditions of Contract may be inspected at the Council Offices.

Sealed Tenders, in the envelope provided and endorsed "Ewhurst Avenue Improvement Works," must be delivered to the undersigned not later than First Post on WEDNESDAY, 6th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ERIC F. J. FELIX,
Clerk of the Council.

Council Offices,
Purley, Surrey.

NEWTON ABBOT URBAN DISTRICT COUNCIL.

SURVEYOR'S DEPARTMENT.

PROPOSED EXTENSION AND COMPLETION OF BRUNEL ROAD.

Contractors are invited to submit TENDERS for the ABOVE WORKS, which will comprise the Construction of approx. 150 lin. yd. of New Carriageway comprising a Pitched Foundation with Bituminous Macadam Surfacing, Footpaths, Foul and Surface Water Sewers and Manholes, Street Lighting, and ancillary works.

Applications in writing, enclosing a deposit of £2 2s., by crossed cheque made payable to the Newton Abbot Urban District Council, should be sent to the Surveyor, MR. CYRIL LUNN, 18 Devon Square, Newton Abbot, not later than 10 a.m. on SATURDAY, 9th April, 1960.

A Specification, Bills of Quantities and Tender details will then be forwarded.

The Council does not bind itself to accept the lowest or any Tender, and firms who tender must do so at their own expense.

The deposit will be returned on receipt of a bona-fide Tender.

D. EVANS,
Clerk of the Council.

Town Hall,
Courtenay Street,
Newton Abbot.

BASILDON URBAN DISTRICT COUNCIL.

BARLEYLANDS CENTRAL DEPOT—GARAGE—STAGE I.

TENDERS will shortly be invited for the ERECTION of the FIRST STAGE of the ABOVE DEPOT, comprising the Construction of a Permanent Steel-framed Vehicle Garage 100ft. x 140ft., together with approx. 3,000 sq. yd. of Concrete Roadway, 4,725 cu. yd. of Bulk Excavation, 500yd. of Cast-iron and Stoneware Drains, and Water Services.

Experienced contractors who wish to TENDER should apply for Tender documents to the ENGINEER AND SURVEYOR, Council Offices, 88 Town Square, Basildon, by 31st MARCH, 1960.

Applications should be accompanied by a deposit of £2 2s. (Two Guineas), which will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn, and on the return of all documents.

SITE STAFF of all grades REQUIRED for contracts in the Greater London area.—Apply Contracts Manager, RONALD LYON (ESTATES) CO., LTD., Lyon House, Lyon Road, Hersham, Surrey.

JUNIOR ASSISTANT ENGINEER REQUIRED for branch office of consulting engineers. Applicants should preferably be of Graduate I.C.E. standard and have experience of works of water supply and/or sewerage and sewage disposal. Commencing salary £700/£800, according to experience. — Apply in writing, giving details, to JOHN H. HAISTE AND PARTNERS, 8-10 Southgate Street, Gloucester.

COUNTY OF CORNWALL.

PENRYN COUNTY SECONDARY SCHOOL.

NOTICE is hereby given of the intention to LET SEPARATELY the FOLLOWING SUB-CONTRACTS for
(a) Hardwood Flooring.
(b) Polished Granolithic Flooring.
(c) Tarmacadam and Bitmac Paving.
(d) Curtaining.
(e) Felt Roofing.
(f) Sanitary Fittings (Supply Only).
(g) Electrical Services.

Applications are invited for permission to submit a FIXED-PRICE TENDER for these Sub-Contracts, and should be made to the County Architect, County Hall, Truro, not later than SATURDAY, 9th April, 1960, from which a selected number of firms will be invited to tender. The closing date for receipt of Tenders will be notified when the documents are dispatched.

The lowest or any Tender will not necessarily be accepted, nor will the County Council pay the contractors any fees or expenses incurred in the preparation of Tenders.

E. T. VERGER,
Clerk of the County Council.

County Hall,
Truro.
18th March, 1960.

BOROUGH OF MORECAMBE AND HEYSHAM.

HEATING AND PLANING.

TENDERS are invited for the HEATING and PLANING of approx. 18,000 sq. yd. of CARRIAGEWAY within the Borough.

Full details may be obtained from the Borough Engineer and Surveyor, Town Hall, Morecambe and Heysham.

Tenders must be received by 9 a.m. on WEDNESDAY, 6th April, 1960.

ROGER ROSE,
Town Clerk.

19th March, 1960.

BOROUGH OF MORECAMBE AND HEYSHAM.

ASPHALT SURFACING.

TENDERS are invited for the SURFACING with ¾in. HOT ROLLED ASPHALT of approx. 16,000 sq. yd. of CARRIAGEWAY within the Borough, together with ancillary works.

Full details may be obtained from the Borough Engineer and Surveyor, Town Hall, Morecambe and Heysham.

Tenders must be received by 9 a.m. on THURSDAY, the 14th April, 1960.

ROGER ROSE,
Town Clerk.

19th March, 1960.

WILLENHALL URBAN DISTRICT COUNCIL.

SURFACE DRESSING CONTRACT, 1960/61.

TENDERS are invited for the SURFACE DRESSING of approx. 98,700 sq. yd. of CARRIAGEWAY.

Forms of Tender and Specification may be obtained from the Office of the Engineer and Surveyor, Town Hall, Willenhall, Staffs.

Tenders, in plain, sealed envelopes endorsed "Tender for Surface Dressing," must reach the CLERK OF THE COUNCIL, Town Hall, Willenhall, Staffs., by THURSDAY, the 14th April, 1960.

WILLENHALL URBAN DISTRICT COUNCIL.

COLD ASPHALT SURFACING OF CARRIAGEWAYS.

TENDERS are invited for the SURFACING of approx. 7,000 sq. yd. of CONCRETE CARRIAGEWAY and approx. 800 sq. yd. of TARMACADAM CARRIAGEWAY with 1in. of FINE COLD ASPHALT.

Forms of Tender, Specification and Bills of Quantities may be obtained from the Office of the Engineer and Surveyor, Town Hall, Willenhall, where the Plans and General Conditions of Contract may be inspected during normal working hours.

Tenders must be returned to the undersigned, in a plain, sealed envelope endorsed "Cold Asphalt Surfacing," not later than THURSDAY, 14th April, 1960.

JOHN R. RIDING,
Clerk of the Council.

WILLITON RURAL DISTRICT COUNCIL.

CLATWORTHY WATER SUPPLY SCHEME.

CONTRACT NO. NINE.

350,000-GALLON REINFORCED CONCRETE RESERVOIR AT WOODFORD, MONKSILVER.

TENDERS are invited for the FOLLOWING WORK:—
Construction of a 350,000-gallon capacity Service Reservoir in Reinforced Concrete at Woodford, Monksilver. The Reservoir will consist of two parts, each 45ft. x 60ft., divided by a Reinforced Concrete Wall, the depth of water being 10ft. 9in. The Reservoir will be banked with an earthwork embankment, which, together with the roof, will be covered with soil and sown with grass seed.
Meter House and Recording Apparatus.
Combined Overflow and Scour Pipe.
Site Works.
Provision and Fixing of all Necessary Valves, Ironwork, Manholes, etc.
Ancillary Works.

Drawings and Conditions of Contract will be available for inspection at the office of the Engineer and Surveyor, MR. S. E. BALCH, A.M.I.Mun.E., Council Offices, Fore Street, Williton, Taunton, Somerset, and the Form of Tender, Specification and Bill of Quantities can be obtained from the Engineer upon payment of a deposit of Three Guineas by cheque, which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Tenders must be delivered to the undersigned not later than Noon on MONDAY, 25th April, 1960. The envelope should bear no name or mark indicating the sender's identity.

The Council do not bind themselves to accept the lowest or any Tender.

F. P. RISDON,
Clerk.

Council Offices,
Williton.
17th March, 1960.

OFFICE ASSISTANT REQUIRED to take-off, prepare materials requisitions, sub-contractors' certificates for building contracts. Above-average salary paid to suitable applicants. — Apply Contracts Manager, RONALD LYON (ESTATES), CO., LTD., Lyon House, Lyon Road, Hersham, Surrey.

HERTFORDSHIRE COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

Hertfordshire County Council invite APPLICATIONS for:—
(a) Assistant Engineer (Improvements)—Special/A.P.T. IV (£785-£1,220 per annum).
(b) Assistant Engineer (Traffic Engineering and Development)—Special/A.P.T. IV (£785-£1,220 per annum).
(c) Engineering Assistant — Special Grades (£785-£1,070 per annum).
(d) Junior Engineering Assistants—A.P.T. I/Special Grade (£610-£1,070 per annum).
(e) Draughtsman—A.P.T. I (£610-£765 per annum).

Commencing salaries will be commensurate with qualifications and experience, and in the case of (d) transfer to Special Grade will not be effected until requisite qualifications and experience have been obtained.

Apply at once, giving details of experience, present salary, age, and names of two referees, to the COUNTY SURVEYOR, County Hall, Hertford.

ERITH BOROUGH COUNCIL.

AMENDED ADVERTISEMENT.

ENGINEERING CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE APPOINTMENT at a salary of £18 18s. per week, in connection with the Picardy Street Improvement and for a period of approx. six months, commencing approx. 4th April, 1960.

Applicants must have a sound experience in setting-out, levelling and reinforced concrete carriageway construction.

Applications, stating age, experience, together with copies of the recent testimonials, to the Borough Surveyor, Town Hall, Erith, by MONDAY, 4th April, 1960.

J. A. CROMPTON,
Town Clerk.

Town Hall,
Erith, Kent.

CITY OF MANCHESTER.

CAR PARK AT WATSON STREET GOODS DEPOT.

SUPPLY AND ERECTION OF STEEL FOOTBRIDGE, TRESTLES AND STAIRWAY.

TENDERS are invited for the DESIGN, SUPPLY and ERECTION of a 30ft. span STEEL FOOTBRIDGE, together with Supporting Trestle, Stairway, Intermediate Trestle and Precast Concrete Decking.

Tender documents (returnable by 9.30 a.m., on the 6th APRIL, 1960) from the CITY SURVEYOR, Town Hall, Manchester, 2.

WOKING URBAN DISTRICT COUNCIL.

COUNCIL HOUSE REPAINTING.

TENDERS invited for REPAINTING 330 HOUSES on Council's BARNSBURY FARM ESTATE, Woking.

Tender documents and Specification obtainable from Engineer and Surveyor, on receipt of Two Guineas deposit, refundable on receipt bona-fide Tender, not subsequently withdrawn.

Tenders to CLERK OF THE COUNCIL by Noon, MONDAY, 11th April, 1960.

THE URBAN DISTRICT COUNCIL OF HAVANT AND WATERLOO.

FOUL SEWER—PROPOSED OLD PEOPLE'S FLATS, FOREST END, WATERLOOVILLE.

The Urban District Council of Havant and Waterloo invite TENDERS for the CONSTRUCTION of approx. 278 lin. yd. of 6in. dia. G.S. FOUL SEWER, 285 lin. yd. of 9in. dia. G.S. FOUL SEWER, MANHOLES and other appurtenant Works.

Conditions of Contract and Drawings may be inspected at the office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom Specifications, Bills of Quantity and Forms of Tender may be obtained on or after 28th March, 1960.

No Tender will be received except in a plain sealed envelope, which must bear the word "Tender," followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on TUESDAY, 12th April, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ASHTON-UNDER-LYNE CORPORATION.

MAIN SEWER RECONSTRUCTION.

CONSTRUCTION OF OVERFLOW ON OUTFALL SEWER.

TENDERS, on a FIXED-PRICE BASIS, are invited from suitably qualified contractors for the CONSTRUCTION of a STORMWATER OVERFLOW MANHOLE on the MAIN OUTFALL SEWER.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Engineer, Municipal Offices, Ashton-under-Lyne, upon submission of a Five Guinea deposit, which will be returned upon receipt of a bona-fide Tender not subsequently withdrawn.

Sealed Tenders must be delivered to the undersigned not later than 9 a.m. on TUESDAY, 19th April, 1960.

G. A. MALONE,
Clerk of the Council.

Town Hall,
Ashton-under-Lyne,
Lancs.
16th March, 1960.

STOCKPORT CORPORATION WATERWORKS.

LAYING OF WATER MAINS BY CONTRACT.

The Corporation have under consideration the LAYING of MAINS by CONTRACT, and contractors experienced in the Laying of Asbestos-Cement Pipelines are invited to make application to be considered for inclusion in the list of contractors from whom Tenders are to be invited by the Waterworks Committee for the Laying of Mains for a period of 12 months.

Application forms, to be returned by 9th APRIL, 1960, from the ENGINEER AND MANAGER, Water Department, Town Hall, Stockport.

AREA AGENTS REQUIRED to take control of several medium-sized contracts, including industrial estates and multi-storey office blocks.—Competent applicants, capable of taking complete charge of these sites, should apply to the Contracts Manager, RONALD LYON (ESTATES), CO., LTD., Lyon House, Lyon Road, Hersham, Surrey.

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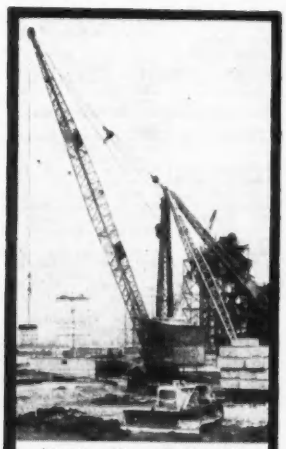

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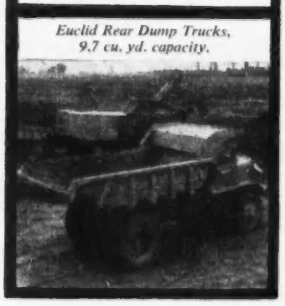

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THE
CONTRACT JOURNAL
INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

THE CONTRACT JOURNAL
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THE BRITISH CONSTRUCTIONAL ENGINEER
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Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

DANGER OF A SLOW-DOWN IN ROAD WORK

THE latest Civil Estimates published last week, show that expenditure on the roads will be increased by £13,498,780 in the coming financial year. In England and Wales it is estimated that £105,637,710 will be spent, an increase of £11,405,900 compared with the estimate for the current year. In Scotland the amount will be £15,447,390, an increase of £2,092,880. The estimated vote for new construction of major improvements in England and Wales is £50,660,000 compared with the 1959-60 estimate of £37,650,000. The money provided for road research and experiments under the Highways Act, 1959, will be increased from £100,000 to £150,000.

The Government's intention to spend more on roads is to be welcomed. But, as the British Road Federation has been quick to point out, the Estimates show a red light for the road programme. In the four years ending 1961-62 capital authorisations for schemes in Great Britain are, according to the Government's announcement in July, 1957, to total £280m. Of this sum, some £250m. will have been authorised by March, 1961—leaving only £30m. for the fourth and final year of the present programme.

Authorisation is only a first step to the construction of a new or improved road. The schemes upon which work will be started over the next few years ought now to be reaching authorisation stage. But the £30m. which the Minister of Transport and the Secretary of State for Scotland have between them for the last year of the programme is less than half their authorisations in each of the previous three years.

The danger of a slow-down in road modernisation work is obvious, and this can only be averted by a fresh allocation of capital for a new road programme. Organisations, such as the British Road Federation, have pressed for some time for a Government announcement of its intentions which, as the Civil Estimates show, must not be delayed. Until it is made, forward planning for the 10,000,000 vehicles of 1962 can only proceed in a vacuum.

More New Towns

NEARLY 50 per cent. of the nation's population live in and around the large urban centres, which contain many of our work and most extensive slums. But slum clearance, redevelopment and road improvements are being held up by lack of sites for housing displaced families.

How is the problem to be solved? According to the Town and Country Planning Association, the great and growing demand for additional housing can only satisfactorily be met by starting more new towns. Because of the shortage of suitable virgin sites, these would mainly be large-scale town expansions, carried out by development corporations to secure the speedy and co-ordinated provision of housing, employment, commercial and social facilities. They would have a very much larger proportion of private housing than do existing new towns.

Some of the new towns, state the Association, should also be started in more distant areas, both to act as counter-magnets for employment and people otherwise certain to be drawn to the big cities, and to help arrest economic and social decline in the areas where they are established. In suitable cases, development corporations should carry out two, three or four related town expansion schemes.

The T.C.P.A. have expressed their views in a statement to the Government and it remains to be seen what will be the official reaction. However, there can be no doubt that more new towns are needed, and more positive action is required from the Government, because although much has been done recently in the field of housing, a solution to the problem is still nowhere in sight.

BLACKWALL TUNNEL DUPLICATION AND HYDE PARK ROAD IMPROVEMENT

London County Council Accept £6.9m. Tenders

As exclusively forecast in *The Contract Journal* last week, London County Council have placed a contract with Balfour, Beatty and Co., Ltd., for the tunnelling work in connection with the duplication of the Blackwall Tunnel, and another with the Cubitts-Fitzpatrick-Shand consortium for all the road and tunnelling work involved in the Hyde Park Corner to Marble Arch improvement. The respective tenders amount to £3,935,799 and £3,000,069.*

Balfour, Beatty's contract comprises the construction of the cast-iron lined portion of the new tunnel—a length of 2,850ft.—with working shafts, pilot tunnels and ancillary caissons.

The 7ft. diameter pilot tunnels will first be driven at the top and bottom of the main tunnel profile and the intervening ground will then be consolidated by chemical injections in preparation for driving the main tunnel.

Two working shafts will be formed by sinking concrete caissons on each bank of the river from which the tunnel shields for the main tunnel will be driven riverwards. In all, some 80,000 cu. yd. of material will have to be removed, the whole work being carried out in compressed air.

The new tunnel, which is estimated to take 42 months to complete, will be situated approximately 250yd. downstream of, and roughly parallel with, the existing Blackwall Tunnel, and will accommodate a two-lane carriageway 20ft. wide with footways for maintenance purposes only. When completed there will be a one-way traffic system; north-bound traffic will use the existing tunnel and southbound traffic the new tunnel.

Mott, Hay and Anderson (for whom Mr. J. Kell, A.C.S.M., is the partner dealing with the scheme) are responsible for the work in association with the London County Council's chief engineer, Mr. J. Rawlinson, C.B.E., M.Eng., M.I.C.E., assisted by the senior divisional engineer, Mr. F. M. Fuller, O.B.E., B.Sc.(Eng.), M.I.C.E. The resident engineer will be Mr. G. P. Coleman, B.Sc.(Eng.), M.I.C.E.

**Full lists of Tenders received appear in the "Awards" columns.*

The remainder of the works not covered by this contract, includes the construction of the shallower end sections of the tunnel, the north and south approaches, the lining, ventilation and lighting of the tunnel together with the provision of drainage pumping plant. These will be carried out under the direction of the council's chief engineer and will take a further period of approximately 18 months to complete.

Hyde Park Improvement

Although the Cubitts-Fitzpatrick-Shand consortium tender has still to be approved by the Ministry they are expected to start work in May on the Hyde Park to Marble Arch improvement.

The scheme comprises a four-lane underpass between Piccadilly and Knightsbridge; the provision of a roundabout for the circulation of other traffic at Hyde Park Corner with a subsidiary roundabout north of Apsley House; the conversion of Park Lane and the East Carriageway of Hyde Park for one-way traffic with connections so that together they form a twin carriageway outside the park with a wide central reservation and roundabout at Marble Arch. Fifteen pedestrian subways will be provided.

At Hyde Park Corner the intention is to continue the effect of parkland between Green Park and Hyde Park by creating one large grassed island. The processional route will cross this island through the Wellington Arch, which will be in the centre of the island. Paths will connect the various points where pedestrians will enter and leave and the remainder of the island will be grassed, with provision for seating adjoining the various low retaining and boundary walls.

With the construction of the new road beside Apsley House, the building will be free-standing and the Ministry of Works propose to face its flank with Bath stone. Similar treatment will be desirable for the building opposite at 144 Piccadilly.

At Marble Arch the large island to be enclosed by the traffic routes will be divided by a link road but it is intended to treat the whole island as one. At the east end, the processional route will pass across the island and on the axis of Marble Arch. Most of the remaining space will be a grass lawn, which when viewed from the processional route will be terminated by a stone screen in front of which will be a pool with fountains and sculpture. This island, too, will be linked by pedestrian subways to the neighbouring points.

To avoid an excessive length of subway between Bayswater Road (north) and Hyde Park by way of the central island, an area at the west end of the island will be excavated, so that pedestrians may come out into the open air at this point, and if they wish, reach the upper level by steps. The pedestrian link between the east and west ends of the islands and the two sets of subways (on the Bayswater Road side and Oxford Street side respectively) will run along the north side of the lawns, with a small pedestrian underpass under the link road. By a careful arrangement of the small retaining and boundary wall provision will be made for seating accommodation with a south aspect.

The central reservation between Park Lane and the Eastern Carriageway will be treated as a strip of parkland with a footpath running along its length. Pedestrian access will be provided by means of subways.

The scheme, which will take 28 months to complete, will be carried out under the direction of the council's chief engineer, assisted by the senior divisional engineer and assistant divisional engineer, Mr. A. J. H. Clayton, B.Sc.(Eng.), A.M.I.C.E. (planning).

Mr. H. Iorys Hughes has prepared the design drawings and bills of quantities for the underpass and subways, and Mr. Hubert Bennett, F.R.I.B.A., architect to the council, designed the layout of the islands and central reservations.

B.R.F. URGES CHANCELLOR TO CUT TAXES

The British Road Federation has urged the Chancellor of the Exchequer to reduce road user taxation by a third in his forthcoming Budget. Such a cut, it points out, would be largely counterbalanced by the rapid growth in the number of vehicles on our roads.

In a memorandum sent to the Treasury recently the Federation refers to the total yield of £567m. this year from fuel tax, licence duties and purchase tax. Transport costs in all their forms, it says, are directly reflected in prices and the cost of living, and have a bearing upon the competitive power of British industry in overseas markets. It is against this background that the unduly high rates at present levied on road vehicle use must be reviewed.

Pointing out that about 24,000,000,000 ton-miles are performed by road goods vehicles every year, the Federation calculates that the 2s. 6d. a gallon fuel tax adds £5 to the cost of each thousand ton-miles. Moreover, the tax causes grave difficulties to bus operators and is a big factor in the cost of running cars for business and professional purposes.

The 50 per cent. purchase tax on cars, it says, militates against the country benefiting to the maximum from the major expansion schemes now being undertaken by the motor industry.

Recognising the need for much higher levels of Government expenditure on the road system itself, the Federation has calculated, for each year up to 1965, the yield from road user taxation at its present levels and at the levels possible if a 30 per cent. cut is made this year. These calculations are shown in a series of tables attached to the memorandum.

At present rates and with road expenditure at the wholly inadequate level provided by the existing road programme, the Federation expects road taxes to rise to the level of nearly £750m. in 1965—of which some £127m. would be spent by the Government on roads.

Given a cut of 1s. a gallon in fuel tax and with purchase tax on cars reduced to 30 per cent. (motor-cycles 20 per cent.) the Federation shows how Government spending on new roads can be built-up over the next five years to treble its present level and calculates that, at the lower rates, the Government would still retain not less than £250m. each year for general exchequer purposes.

B.R.T.A. COURSE HELD IN LONDON

A British Road Tar Association course on the technique of road construction and maintenance with tar and the development of technical service to the customers, was held recently at the Institute of Transport.

The course was opened by Mr. J. Davidson Pratt, C.B.E. (chairman of the B.R.T.A.) and the panel of lecturers included Mr. E. W. Hinchley of the Midland Tar Distillers, Ltd., Mr. H. H. Downes of the North Thames Gas Board, Mr. A. Dodd of United Coke and Chemicals Co., Ltd., and Mr. P. S. Ledger Lee, technical officer of the British Road Tar Association.

By permission of the Director of Road Research, a visit to the Road Research Laboratory was included in the programme.

FACULTY OF BUILDING OFFICERS

The faculty of building announce that the following officers have been elected for 1960-61: President—Mr. F. L. Howe; vice-presidents—Mr. S. H. Evans, Mr. R. Macdonald, Mr. E. J. Murrell, and Mr. G. Vickers; hon. treasurer—Mr. G. E. Hill.

FIRM-PRICE TENDERING: SUCCESSFUL OR OTHERWISE?

Architects' Views on "Full Documentation" Plea

IN recent weeks representatives of the contracting side of the construction industry have criticised local authorities and other public bodies for calling for firm-price tenders for schemes which have not been fully planned.

Shortly before the termination of his year of office as President of the National Federation of Building Trades Employers, Mr. T. V. Prosser, addressing the Eastern Federation of Building Trades Employers, called for "an immense improvement in the full design and planning of our buildings—full documentation before work starts on the site—a policy to which more lip-service is paid, alas, than to which effective implementation is given." Similar statements have been made by other leading members of the Federation. The question has, in fact, been asked in building circles whether firm-price tendering is breaking down.

To obtain the viewpoint of the official architect *The Contract Journal* recently carried out a survey among architects in public service and their views, some of which are given in this article, will, we feel, make for better understanding between the two sides in this important matter.

Survey Conclusions

The Survey shows first and foremost that architects are very much alive to the problem and appreciate the builders' point of view. It is agreed that full documentation before work starts on the site is essential to the successful application of firm-price tendering. Every effort appears to be made to provide builders with the fullest information but, as a number of architects point out, this is not always possible.

One reason for this is shortage of staff and the policy of Government departments authorising major projects one year at a time. The chief point to emanate from this survey is without doubt the influence of Government departments' policies on the success or otherwise of the system of firm-price tendering. *There seems little doubt that if the builders' demands of full documentation are to be met Government departments must give local authorities more time and announce their building programmes earlier.* The action of the Ministry of Education in announcing a two-year programme instead of one has been widely welcomed.

Architects do not appear to have received any criticism from individual contractors which may seem a little strange in view of the statements made by the N.F.B.T.E. spokesmen. It may, of course, be that builders have decided that it is politic to complain to their trade organisation rather than the client. Generally, architects seem well satisfied with the service they have received from contractors although there are some criticisms which seem to point to organisation weaknesses in individual firms.

Firm-price tendering seems to have had little material effect on costs, the difference between a fluctuating and non-fluctuating tender being about 1 per cent. There are, however, at the present time indications that this percentage is increasing, probably in view of the threat of increased transport costs and the possible effect on materials prices. The savings in administrative costs on both sides appear, however, to have been considerable.

There is no doubt that the introduction of firm-price tendering has been fully justified and is working well, and if prices generally remain reasonably stable there is little likelihood of the system breaking down.

Architects' Views

In giving some of the views of the architects who kindly co-operated in the survey it seems appropriate to start with the comments of a city architect who would like to know what contractors mean by full documentation.

MR. J. L. WOMERSLEY, city architect, Sheffield, states: I think it is very necessary that contractors should agree on what is meant by "full documentation." Referring to the Memorandum issued by the N.F.B.T.E., November 1, 1957, entitled "Firm-Price Tendering," it would seem that this relates to pre-contract matters and refers to the documents supplied to the contractor, upon the basis of which he had submitted a tender. Usually, the basis of any tender is a Bill of Quantities and the set of ⅛in. scale drawings showing the general arrangement of the scheme (ref. Item 7 of Code of Procedure for Selective Tendering). If the President was complaining that this procedure was not often implemented, then I cannot think he was referring to local authorities.

If, however, he was using the words in their broadest sense, particularly in relation to drawings, schedules, nominations, etc., being required at commencement of the work and not in reference to the Memorandum issued by his Federation, then the Federation should clarify the position and withdraw paragraph 10 from that Memorandum.

The procedure I have adopted generally is as follows: (1) Firm-price tenders for all housing contracts which amount to less than £100,000; (2) firm-price tenders for all non-housing contracts which amount to less than £75,000; (3) for contracts above these figures contractors are given the option of quoting—(a) firm-price, (b) firm-price for materials, but fluctuation on labour.

My experience has shown that initially the extra cost included in tenders based on firm-price for materials only, amounted to about 1 per cent., and the firm-price for labour added a further 2 per cent. On account of the small amount added for firm-price for materials, tenders were invited on the above basis and the results to date show that the difference between 3(a) and 3(b) has been reduced from 0.5 per cent. to 0.75 per cent. on the total of the tender. I have no criticism of contractors in their tendering on a firm-price basis apart from the fact that very often they do not in turn take full advantage of obtaining firm-price quotations for their materials and supplies which building trade suppliers and merchants will give, if they are requested to do so. There might be a tendency for contractors to ask for consideration being given by the building owner to a claim due to a sudden rise in the cost of any one material, when in fact they could have covered themselves by obtaining a firm-price quotation covering either a specified period or the period of the contract.

The local authorities' problem of preparing full details, schedules, nominations, etc., preparatory to the commencement of a contract, is made extremely difficult when Government departments cannot give at sketch plan stage a firm indication as to whether a scheme will receive loan sanction. Schemes are either deferred or accelerated depending upon the financial position of the department concerned. Further, the rigid programming of schemes within financial years often mitigates against the architect particularly if he receives his brief towards the end of the year. The transference of schemes from one year to the next should not prejudice their ultimate position in the programme.

Large Authority's Problem

MR. A. G. SHEPPARD FIDLER, city architect, Birmingham: In a very large authority with a continuing programme amounting to several million pounds in each year, it would have imposed an immense strain to have pre-planned every project prior to adopting the system of obtaining firm-price tenders. It would have been practically impossible to have done this without stopping the letting of contracts for a period of several months.

The only way to overcome this problem has been to move gradually towards complete pre-planning whilst maintaining the programme, and this is being accomplished. Many schemes are now pre-planned and eventually pre-planning will be in operation for all projects. For smaller authorities, this problem has probably not been so difficult to solve.

Excellent Co-operation

MR. P. B. HASWELL, acting city architect, Leeds: Since October, 1957, many schemes ranging from flats to schools have been let on the basis of firm-price tenders. Whilst it is often difficult to achieve the degree of pre-planning desirable in this form of contract it is true to say that the co-operation of the contractors has in general been excellent and these schemes have proceeded smoothly and without difficulty.

The level of firm-price tenders received over the past two years coupled with the success of this type of contract gives me some encouragement to apply it whenever possible in the future.

MR. LEONARD G. VINCENT, C.B.E., chief architect, Stevenage Development Corporation: I heartily agree with any criticism of public or private enterprise calling for firm-price tenders on ill-prepared plans. It must be an axiom of competitive firm-price tendering that concise and full information is made available at the time of tendering.

A number of tenders have been sent out calling for, i.e., fully fluctuating contract, part firm-price contract (labour excepted), and fully firm-price contract. The difference between the first and the last has never been more than 2½ per cent. in the early years, compared with 1½ per cent. for recent tenders. In some cases there has been no difference. Generally it has been felt that an extra 1½ per cent. to convert a fluctuating contract to a fully firm-price contract was well worth while in the saving of administration costs, quantity surveying fees, etc.

One criticism I have of some contractors tendering on the firm-price basis; they do not go into the question very fully when tendering and are inclined to increase their tenders by more than is necessary. For example, in one or two cases I have had tenders which were between 3½ per cent. and 4 per cent. above the fully fluctuating price. It is interesting to compare these with actual final accounts of contracts, in which all increased costs were accepted, i.e., labour and materials, which never, in any instance, amounted to more than a maximum of 2 per cent.

Contractors Have the Answer

MR. C. H. SIMMONS, county architect, Lancashire: I think the answer for critical contractors is in their own hands—they should in fact refuse to give firm-price

tenders unless they have adequate knowledge that the requisite documents will be available at the outset of their contract.

My own experience is that general contractors are prepared to submit firm-price tenders in the knowledge that drawings are complete and that all important provisional sum items have been dealt with before the starting date. This is a form of discipline we have imposed upon ourselves in Lancashire and, of course, there is an important saving of time if the architectural, engineering and quantity surveying work is done at one time.

We have a pre-site meeting as soon as the tender is accepted so that all the people involved in the contract will meet each other and can discuss the full agenda, giving details of the information available for the commencement of their contract.

Until recently, the difference between a basic tender and a firm-price tender has been about one per cent.; it is higher at present because of the imminence of the rise in labour rates.

Hospital Architects' Views

MR. F. A. C. MAUNDER, regional architect, N.W. Metropolitan Regional Hospital Board: I have every sympathy with building contractors who are asked to give firm-price tenders on schemes which have not been adequately pre-planned. So far, where this Board's schemes are concerned I have I believe, maintained a high standard of pre-planning. However, in view of the anticipated increase in capital investment in hospital building I consider that it may not be possible to fully pre-plan all schemes in the future unless the necessary additional well qualified architectural staff become available and it may be necessary in certain cases to include the price variation clause in a number of contracts which would otherwise have been on a firm-price basis.

I have no reason to believe that costs have risen because firm-price tenders have been invited. There are, of course, two obvious advantages in the elimination of fluctuations claims, namely the saving in the time required for the agreement of the final account and the consequent saving in quantity surveyor's fees.

MR. W. J. JOBSON, regional architect, Oxford Regional Hospital Board: The last three years has, of course, been a period of relatively stable prices, and although I have no factual evidence to support the view that the effect of obtaining tenders on a firm-price basis has not increased the cost of tendering by more than, say, one per cent., discussions with my colleagues in the hospital field suggest that this is something like correct. I think it is clear, however, that firm-price tendering can only work successfully when material and labour prices are steady, or at any rate subject to gradual increases which can be safely predicted. It is also appreciated that the scheme can only work successfully where projects are completely pre-planned. I have no doubt that the President of the N.F.B.T.E. is justified in his statement that so far only lip service has been paid to this condition. It should be pointed out, however, that complete pre-planning is not a policy that can be brought about overnight, and since firm-price tendering has been instituted, I am quite sure it has had the effect of improving considerably the pre-planning of building work.

MR. P. H. KNIGHTON, regional architect, Newcastle Regional Hospital Board: It is my custom to try to ensure that by the time a contractor has been appointed, all detailed drawings have been completed, all schedules of finishes, door and ironmongery schedules, etc., prepared, and all main sub-contractors appointed. In the past, one of the obstacles to complete success has been that of persuading consulting engineers to obtain tenders for the engineering sub-contracts at a sufficiently early date, but with persistent reiteration and reclarification (in written form) of the principles of co-ordination between the work of the consulting engineer and the architect, this difficulty is now disappearing. As an example, in connection with a contract of about £400,000 for which I am responsible as the practising architect, and on which construction will commence within the next three or four weeks, a first meeting is about to be held with the general contractors at which it will be possible for all main sub-contractors also to be present, since all pre-planning of their work has been completed. Moreover, except for schedules of decoration, all other details have been completed.

On the other hand, in connection with another major project which is slowly coming to a close, the private architects concerned were still being pressed by the general contractors for detailed drawings within the last two or three months and after the contract had been actively in progress for at least 18 months.

It is clear that for it to be mutually beneficial and fully successful building contractors also have a responsibility in connection with the pre-planning of projects. So far. I have no clear evidence that contractors are meeting this responsibility. Instances have been encountered of contractors asking for at least six weeks after the acceptance of their tender before making a start with the construction—the reason advanced for this abnormally long period being the builder's wish to do his own pre-planning. The agreeing of a delayed start has sometimes merely saved the contractors the expense of starting work during inclement winter weather, or has allowed them a measure of time for completing another contract, but there is no evidence that a better start has been made as a result of the delay. Indeed, my experience of firm-price contracts has been that the architect has had to take on, to an equal extent as before the advent of firm-price tendering, a considerable part of the builder's responsibilities in expediting the progress of sub-contractors and suppliers, smoothing out difficulties of labour recruitment and doing for the building contractor much of the co-ordinating of sub-trades which should be his responsibility.

There is often too great a tendency for general contractors to think and speak of "our part of the contract," leaving the architect to do the builder's work in looking after the sub-contractors and suppliers. This position can, however, be alleviated by the practice which I adopt of reducing the number of provisional and P.C. sums, even on large contracts, to not more than five or six including the main engineering provisional sums.

L.C.C.'s Point of View

A spokesman for the LONDON COUNTY COUNCIL, giving the Council's point of view, states: Since May, 1958, the L.C.C. has, with few exceptions, invited firm-price tenders for its building contracts for which a completion period of up to two years has been stipulated. No difficulty has been experienced in obtaining tenders nor have any criticisms been directed to the Council during the execution of the works because of lack of drawings or issue of an undue number of variation orders.

It is difficult to say whether there has been a definite effect on costs of construction due solely to the incidence of firm-price tendering since, during the past two years, the imposition and removal of credit restrictions on building work, coupled with a general decline in costs of materials have introduced other factors which have an important bearing on the level of tender prices.

The council is satisfied that the arrangement has worked well and will continue its present practice.

Fully Justified

MR. H. T. WYKES, borough architect, Swansea: Every endeavour is being made in this office to fully plan and document contracts before building work starts, with varying success. Where this has been done contracts have usually been completed well ahead of schedule.

In one or two cases, however, contracts have faltered in spite of full planning and the contractors have realised, with shocked surprise, that the troubles that beset them were not, after all, purely due to the architect's initial failure but in their own organisation.

I consider firm tendering has fully justified itself, has been a challenge to architects and contractors alike, has not added to the cost of building and makes it easier to finalise accounts. I think, however, that dual tendering should still be invited to give contractors opportunity to express their confidence (or otherwise) in the architect's planning and market expectations.

MR. ALBERT H. CLARKE, city architect, Bristol: I am unaware of any complaint on the part of Bristol builders that works for which firm-price tenders have been invited by the Corporation have not been fully planned. My experience over the past two years of firm-price tenders has been such that I have recently recommended that firm-price tenders only should be invited for the future, although I have been given the discretion to obtain alternative tenders should I consider it desirable to do so in respect of any particular project.

Substantial Saving

MR. ARTHUR LING, city architect, Coventry: In Coventry, except initially, it has not appeared that any specific addition has been made to tenders to cover the risk of giving a firm-price tender as just prior to announcement of the current increase in labour rates a firm-price tender contained a sum which almost exactly equalled the calculated cost effect of the actual increase subsequently announced. This indicates that if any addition is made to cover a risk which is fairly certain, it is likely to be reasonable.

There has been no recent indication that firm-prices have had any special effect on tender costs of construction either by way of increasing or decreasing costs. However, the administrative saving both to the corporation and to the contractors in not having to deal with cost variation records and claims must be quite substantial.

I feel that the statement made by the President of the N.F.B.T.E. can do nothing but good if read by client council members as it is they who must be led to appreciate that for firm-price tenders adequate pre-planning necessitates adequate time.

Too Short a Time

MR. F. HAMER CROSSLEY, county architect, Derbyshire: There are three important points, in my view, which have hitherto precluded the adoption of the policy of firm-price tendering with any reasonable chance of success (a) staffing problems, (b) yearly programmes of work authorised by Government departments, (c) wage claims overhanging the industry.

I am sure that no local authority has been able to obtain the staff which would be considered adequate to provide the pre-planning required within the limitations imposed by Government departments authorising major projects one year at a time.

One year is all too short a time to select a site, decide on the appropriate means of dealing with any difficulties such as mining subsidence and to provide all the information considered reasonable from the contractors' point of view without such an excess of staff as must render any office uneconomical, bearing in mind also that these problems have to be related not to one major project but probably a dozen or more all clamouring for attention within that year.

There has been a certain stability of wages over the recent past, except for the claim for 4d. an hour, which has been hanging over the industry for over a year. Now that this has been settled and the cost of living index appears to be stable, contractors should be able to look at their costs over a period of, say, 18 months and quote with a reasonable chance of accuracy.

The local education authorities' building programme, as approved by the Ministry of Education is the biggest programme of any Government department, as an-

nounced for the two years 1960/61 and 1961/62 and the relative stability on the wages front to which I have referred previously, has resulted in this council deciding to adopt the policy of firm-price tendering for all projects in those years with a further few projects from the current year and it is hoped that staff changes will not preclude this department from providing the fullest possible documentation to enable this policy to be a success.

Importance of Progress Schedule

MR. T. A. BRITTAIN, borough architect, Birkenhead: Firm-price tendering was commenced by the department practically three years ago. I noticed little or no variation to the general price levels of tenders, and it has certainly speeded up the settlement of final accounts.

As far as possible, I have usually completed most of the detailing before the commencement of the contract, but there are inevitably small variations and details required during the progress of the work.

I find it most important to hold a meeting with the contractor and his subcontractors before the work is begun, so that his progress schedule can be examined in detail and a time limit is placed on any further drawings he may require. I enforce rigidly any date lines he might give. Site meetings are held periodically when progress is discussed and details of construction varied or finalised.

Worked Well

MR. H. J. W. STIRLING, city architect, Plymouth: Before firm-price tendering was adopted by the City Council, the various committees responsible for awarding building contracts were warned that this system would necessitate an increase in the time required for pre-contract planning as contract drawings and other information required at the initial stage of the work would have to be completed before going out for competitive tendering. During the two years in which this system of tendering has been working, pre-contract planning has been fully implemented by my department.

It has been found that the firm-price contracts have been working well, tenders received have been competitive and final accounts more speedily settled. Initially, on one contract amounting to approximately £100,000 alternative tenders were received and it appeared that the firm-price tender would cost approximately 1½ per cent. more. However, alternative tenders have not recently been invited and it is difficult to ascertain what percentage uplift contractors have been adding for the "firm-price." On many contracts, prices received have been so keen that I feel that the percentage must now be very much smaller. The relationship between the contractor and my department I would say is good. Contractors receive full documentation at the commencement of their contract and this is further simplified by the reduction of prime cost sums and provisional work within the Bills of Quantities.

One general criticism I would like to make regarding contractors, this naturally does not apply to all, and that is they appear very ready to escape their contractural obligations and responsibilities whilst at the same time they are very quick to take advantage of any lapse that may occur on the architect's part.

Two Months Period Difficulty

MR. HAROLD B. ROWE, city architect, Exeter: The need for pre-planning of contracts by the architects is fully appreciated and every effort is made to provide contractors with all drawings and documentation at the commencement of the work as far as is reasonably possible to meet the programming requirements by the contractor.

Difficulties arise in accepting tenders within the two months period laid down, the reason being that the procedure which local authorities must follow in obtaining all committee, council and Ministry approvals is such that it is not often possible to accept a tender within that time. Furthermore, the time sometimes taken in arranging for a bond, if so required, can also add to this delay.

This difficulty is also met in a more pronounced degree in the acceptance of tenders from those types of nominated sub-contractors and suppliers whose schemes and tenders have to be obtained and decided upon in the early stages of the proposals in order to be incorporated in the working drawings as part of the pre-planning arrangements.

The smooth running of a firm-price contract also calls for careful and detailed pre-planning on the part of the contractor who should be in a position to provide a detailed building stage programme for the whole contract shortly after the works commence, so that the architect can co-ordinate all related works and detailing, which enables him to accept responsibility for providing the contractor with acceptance orders and detailed drawings in proper sequence and in ample time for the contractor to carry out his scheduled programme.

There appears to be little evidence in my experience that firm-price tendering has resulted in any speeding up of the completion of building works, or that building costs have been materialy affected. There is, however, considerable advantage in carrying out a firm-price contract, as contract costs are known to a more accurate degree before a contract is accepted and final settlements of contracts are dealt with more quickly than those embodying the fluctuation clause.

Contractors' Weakness

MR. ANTHONY B. DAVIES, chief architect, Basildon Development Corporation: There is no doubt, in my opinion, that firm-price tendering is desirable because it is a healthy and businesslike arrangement. For a firm price to be literally true the contractor should receive all the information necessary for the contract by the start of the contract and preferably in fact as part of the tender documents. Equally, the contractor must act promptly and efficiently upon that information so that his organisation is geared and his orders placed for immediate action.

In practice, however, I find that two things particularly militate against these ideal conditions. In the first case clients, whether public or private, invariably will not give the architect sufficient time adequately to prepare the most efficient design and the complete information illustrating it. Time and again after the client may have taken years to decide whether or not to embark on a project or to expend the money he does, when a positive decision has been taken, unreasonably press the architect and the contractor for immediate construction and completion without recognising the problems involved in designing and constructing the building and without accepting advice on the advantage to himself ultimately in time and money by allowing such adequate preparation to be made. A simple point, for instance, is that involving clients concerning themselves with the starting date, whereas they should concern themselves solely with the completion date. An early start does not necessarily mean a parallel early completion nor stable finance.

The second factor is that on the occasions when adequate time is allowed for full preparation of all information to the contractor the contractor does not efficiently and promply act upon it. It is my experience that contractors naturally continually try to make the architect the scapegoat for all building contract delays and he is always on a good wicket when the architect has not had an opportunity to provide all the information initially. When that condition is removed, however, and the information is provided, the contractor is often exposed in his own weakness as having an organisation quite incapable of appreciating the advantage that is in his hands and in making effective use of it. I have in my experience numerous instances of this case, so that I believe these arguments over early information at the present time to be a case of "the pot calling the kettle black,' and I would very much like to see efforts made to increase efficiency on a parallel basis, both with the architect and contractor, from the moment client's instructions are received.

A Critic of Firm Prices

MR. FRED POOLEY, county architect, Bucks.: The real problem before the architectural profession and the building industry today is to produce good buildings quickly, at a reasonable price and without resorting to suspect methods of contracting or the use of immature materials or methods of construction. When we are able to do this we shall see the end of such things as "Firm-price Tenders," "All-in Contracts" and many of the proprietary systems of construction.

A step in the right direction is for the architect to design in straightforward construction, using tried materials and at the same time arranging the contract in such a way that the general contractor is responsible for constructing the building without having to work with a host of nominated and often unknown sub-contractors.

The general contractor faced with reasonable construction and the prospect of being in entire control of the work should be prepared to enter into a contract which did not entitle him as a matter of right to an extension of time directly materials or labour become difficult. The standard R.I.B.A. Form of Contract does enable a contractor to claim an extension of time, and many irresponsible and inefficient contractors are encouraged to go on tendering and building, bringing a bad reputation to the building industry.

For the last five years in Buckinghamshire we have been producing buildings of traditional construction where we have been prepared to delete P.C. Sums entirely from the Bills of Quantities. We have also modified the R.I.B.A. Form of Contract so that the contractor would not have a right to claim an extension of time where labour and materials are in short supply. The result is that we have been able to produce buildings quickly and from an analysis of published figures it would appear that our increased costs on these contracts have been nearly 1 per cent. below what we would have had to pay if we had invited firm-price tenders.

At this time when it appears that there might well be another general all-round increase in prices, a contractor asked to submit firm-price tenders will obviously cover his risk, and this will lead to even higher building costs. It would be far better, in my judgment, to get more efficient building by the methods I have outlined rather than by firm-price tenders, which will lead to inflation.

A Critic of Contractors

MR. A. N. HARRIS, county architect, Northants.: I am surprised that the President of the National Federation of Building Trades Employers should pay heed to opinions and complaints against firm-price tendering when it is patently obvious that these complaints are completely without foundation or truth.

The R.I.B.A. Form of Contract is admittedly a one-sided document, but under Clause 20, the general contractor is protected against the clients' or the architects' delays and given the legal opportunity to threaten or take drastic action, and by these means obtain an immense improvement of the "full design and planning of his building, lip service or no!"

Had there been a single instance whereby a contractor of long-standing experience and repute had suffered serious financial loss through the architects' or clients' delays, we should have seen it substantiated in legal report.

No! The truth is that the fraternity of 1940 onwards raised on "rise and fall" are

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In Parliament

HOUSING MINISTER PREDICTS HIGH RATE OF CONSTRUCTION THIS YEAR

THAT the shortage of sites was at the root of the difficulty, particularly in and around the large cities, was stated by the Minister of Housing and Local Government, Mr. Henry Brooke, when he spoke in the Commons last week during this Parliament's first major debate on housing. He said that a solution had to be found without breaking into the green belt, which had to be held, and he trusted that both sides would agree that densities needed examining again.

The Minister said that there were under construction about 17,000 more private enterprise houses than there were a year ago, and also about 20,000 more council houses. Unless something wholly unpredictable occurred, they would be likely to complete well over 300,000 houses this year. In 1954 there had been 35,000 improvement grants. He hoped that this year the figure would be three times as great.

It would be absurd to start expanding unconditional subsidies again. The purpose of subsidies in these days had to be to try to fix the priorities aright. He was not defending the whole conglomeration of subsidies which had been built up over the last 40 years or more.

The Opposition case was that local authorities could not go on building at the present rates of interest and subsidy, despite the fact that the amount of council building was not going down but going up. The rate fund contribution to housing revenue accounts to keep down rents was £18m. for England and Wales in 1955-56, and £16m. in 1958-59. In other words, the capital burden falling on rates was not going up but down.

What that reduction in the rate fund contribution meant was that a good many local authorities in the last three or four years had been withdrawing subsidy from tenants whom they found did not need it any longer. The number of such authorities was between one-quarter and one-third of housing authorities in England and Wales.

The Government intended to press forward with slum clearance, and in a year or two a very large number of local authorities would have cleared all their slums. They intended to press forward with, and if possible increase, the proportion of council houses built for old people, and to maintain a high rate of house building. In 1960 it would be the highest for years.

Appointment of Safety Officers

During question-time, the Minister of Transport, Mr. Ernest Marples, rejected a suggestion by Sir S. Storey that when making grants to local authorities towards the cost of civil engineering projects he should make it a condition that the authority would require the contractor for the project to appoint a fully qualified safety officer.

Mr. Marples said that he did not think it would be appropriate to make this a condition of grant. The safety of workers on such projects would be covered by the new regulations under the Factories Acts which the Minister of Labour was proposing to make shortly.

Abandoned Railway Lines

The Minister, in a written answer, informed Mr. Grimond that there were at present six road schemes which involved the use of abandoned railway lines and on where it was proposed to build a viaduct over a railway line in operation. He would continue to approve such schemes where they were justified on economic and engineering grounds.

New Bridge, Hackney

Replying to Mr. Iremonger, the Minister stated that he understood the London County Council hoped to start work next November on the building of a new bridge at Temple Mills, Hackney. He was making a grant of over £150,000 towards the cost of the scheme which was due for completion in November, 1962.

Reflecting Kerbs

Mr. Woodburn asked the Secretary of State for Scotland the estimated extra cost per mile of reflecting kerbs compared with the ordinary type; and what approximate extra percentage of this would add to the cost per mile of new road.

In a written answer, Mr. John Maclay replied: About £120 per mile on both sides. Assuming the cost of a 24ft. road is about £60,000 per mile, this represents 0.2 per cent.

Direct Labour Housing

Questioned by Mr. Emery, the Minister of Housing and Local Government, Mr. Henry Brooke, in a written answer stated that out of the 1,469 housing authorities in England and Wales the number who had made use of direct labour on some, or all, of their house construction were 178 in 1950, 167 in 1953, 156 in 1956 and 139 in 1959. He had no information as to the numbers who had made use of it on care and maintenance.

In 1959 one county borough, one non-county borough, two urban district and two rural district councils had used a direct labour force for building houses for sale.

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now finding competition keen and looking for scapegoats. We should hear no complaints from them against firm-price contracts in a recession or deflation.

Since firm-price tendering has been introduced there is no doubt that the efficiency on the contractor's side of the building team has improved 100 per cent. The temptation to slide into delay, which would eventually be paid for by the client, was all too easy in the old rise-and-fall contract. The opportunity is always open to a contractor to use the threat of action under Clause 20 at site co-ordination meetings and so guarantee accelerated architectural direction. Imagine the embarrassment of the official architect forced to report to his committee a notice of a determination by the general contractor lodged on account of insufficient information.

The Last Word

We give the last works to MR. H. CONOLLY, C.B.E., county architect, Essex, who as a vice-chairman of the Joint Consultative Committee of Architects, Quantity Surveyors and Builders, naturally supports the plea for the full documentation of firm-price contracts, but in his other capacity, as chief architect to a large local authority, has to practise what he preaches! Says Mr. Conolly: In my department, my colleagues and I have tried for some years now to pre-plan all our jobs. I think we have achieved a substantial measure of success. We have certainly reaped a reward of more competitive and, possibly, lower prices, and we have saved ourselves a good deal of worry and frustration into the bargain.

It is not possible, of course, to get 100 per cent. success all the time on each and every job. There are many outside factors which can, and do, influence our work, such as the lack of sufficient time, a sudden shortage of staff due to illness or resignations, or an unforeseen influx of emergency work of high priority.

They say that success breeds success. This surely should be true of firm-price tendering once all concerned have understood the implications of its precedent conditions, particularly in Central Departments and at local authority level. Both of these need to give longer time than at present to their architects and engineers to do their work by earlier announcements of their building programmes. The Minister of Education has given a splendid lead in this direction recently by his substitution of a two-year building programme instead of the customary single year. Other Departments of State, please copy!

Local authorities should learn not to change their programmes lightly, or even their priorities within a programme, once drawing work has started in earnest. They should also ensure that they have legal possession of land for building before they instruct their architect to get in tenders.

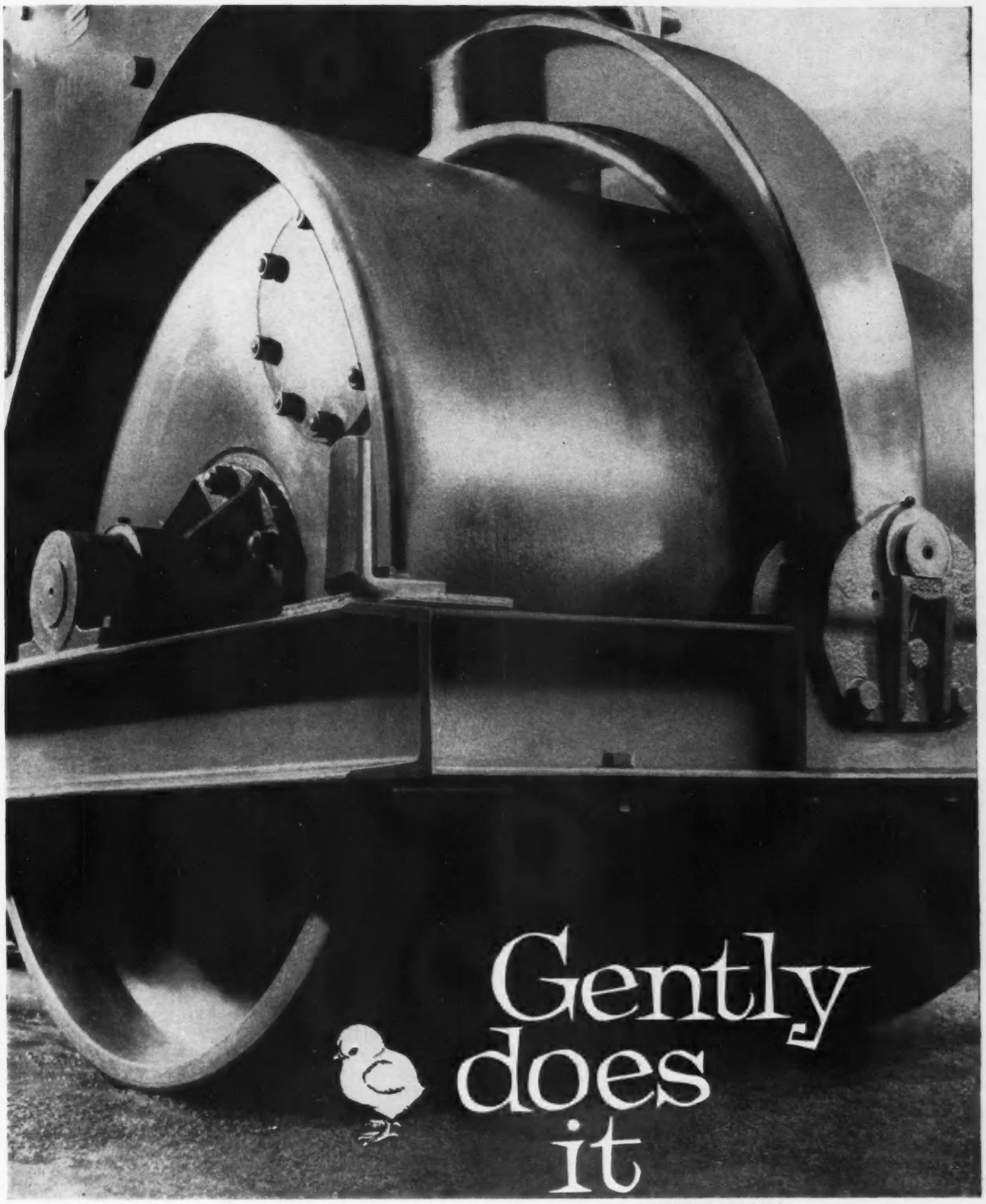
To me, the great value of firm-price contracts is that one is freed from many of the administrative difficulties which subsequently arise from the operation of the fluctuations clause. So often these claims are reviewed at final accounting by non-technical staff who, while skilled in auditing, do not necessarily understand the building trades in all their ramifications. And at this stage, carefully built-up goodwill can so easily seep away!

Full documentation at the start of a job should be an incentive to a builder to make all his own arrangements early. Unfortunately, in my experience, not all contractors do this. We do not always get the speed of erection we feel we have earned by our pre-contract preparation. There may, of course, be other influencing factors, such as site shortages of labour and materials, but sometimes we feel it is merely inertia on the builder's part. At any rate, it is something the Federation might look at, as a change from always shooting at the architect!

Where contracts are being carried out on a basis of fluctuations, presumably the particular conditions of the N.F.B.T.E. do not apply. But the sooner we can properly detail all jobs before site work begins, the better for all concerned. In the case of my own Council, immediately we received the Minister's Circular about firm-price tendering, I was instructed to operate this on all jobs up to £10,000 in value for a trial period of one year. At the end of this time, the Council raised this limit to £75,000 and will soon be considering the matter again.

During this two-year period, we have, of course, had difficulties, but we have usually managed to overcome them. Sometimes it has not always been possible to accept a tender within the stipulated period of two months. On occasion we have found that some contractors have been inclined to ask, in our opinion, too high a price for re-dating their tenders. We can accept the fact that conditions change even in a comparatively short time. The builder may no longer want the job, having got other work in the meantime. Or he may realise that what he thought would be autumn work has now to be started in the winter. Or he may just have seen the prices of his competitors! But all this can be avoided if building owners would realise the need for speed in the acceptance of firm-price tenders.

All this about something we took for granted before the last World War!



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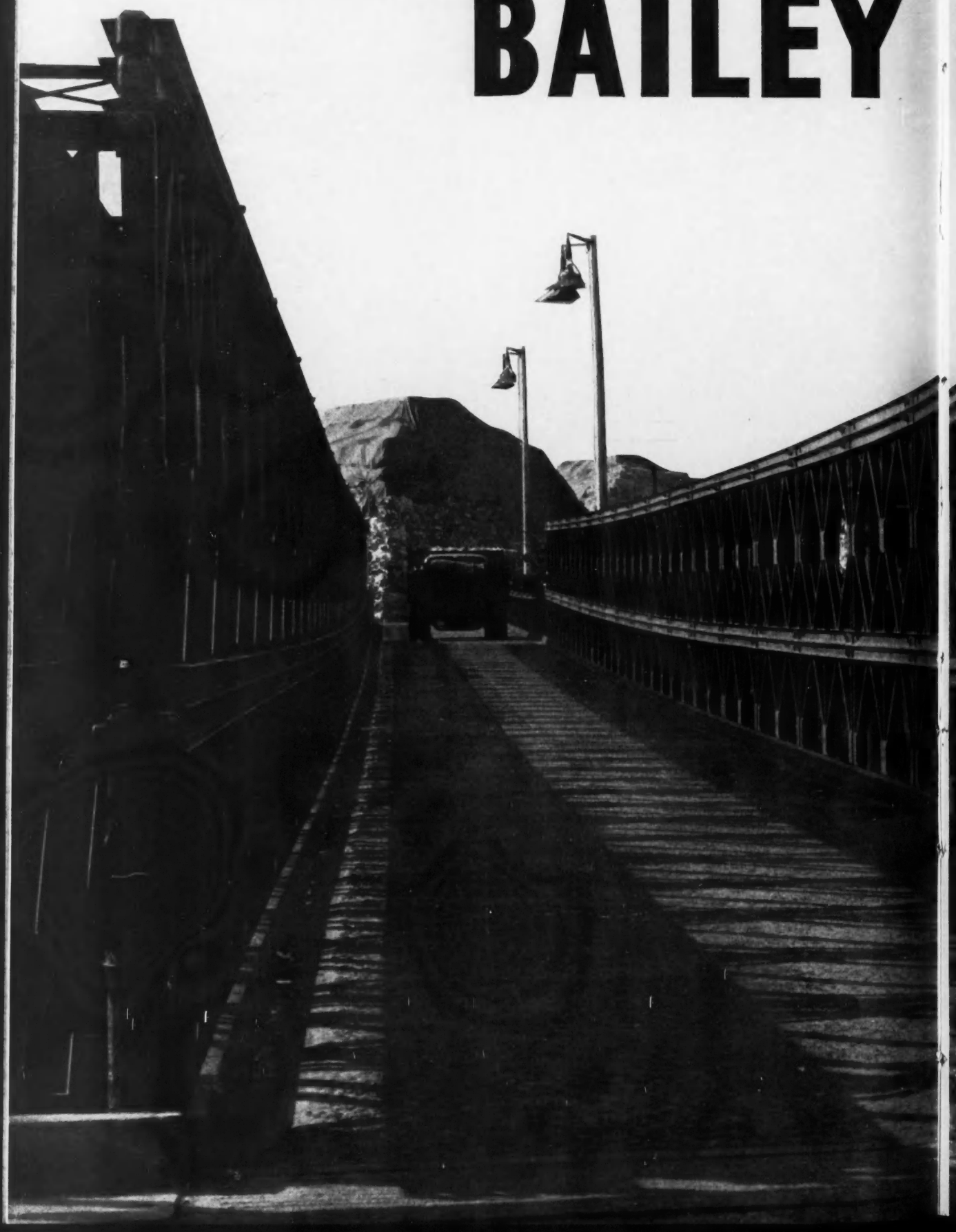

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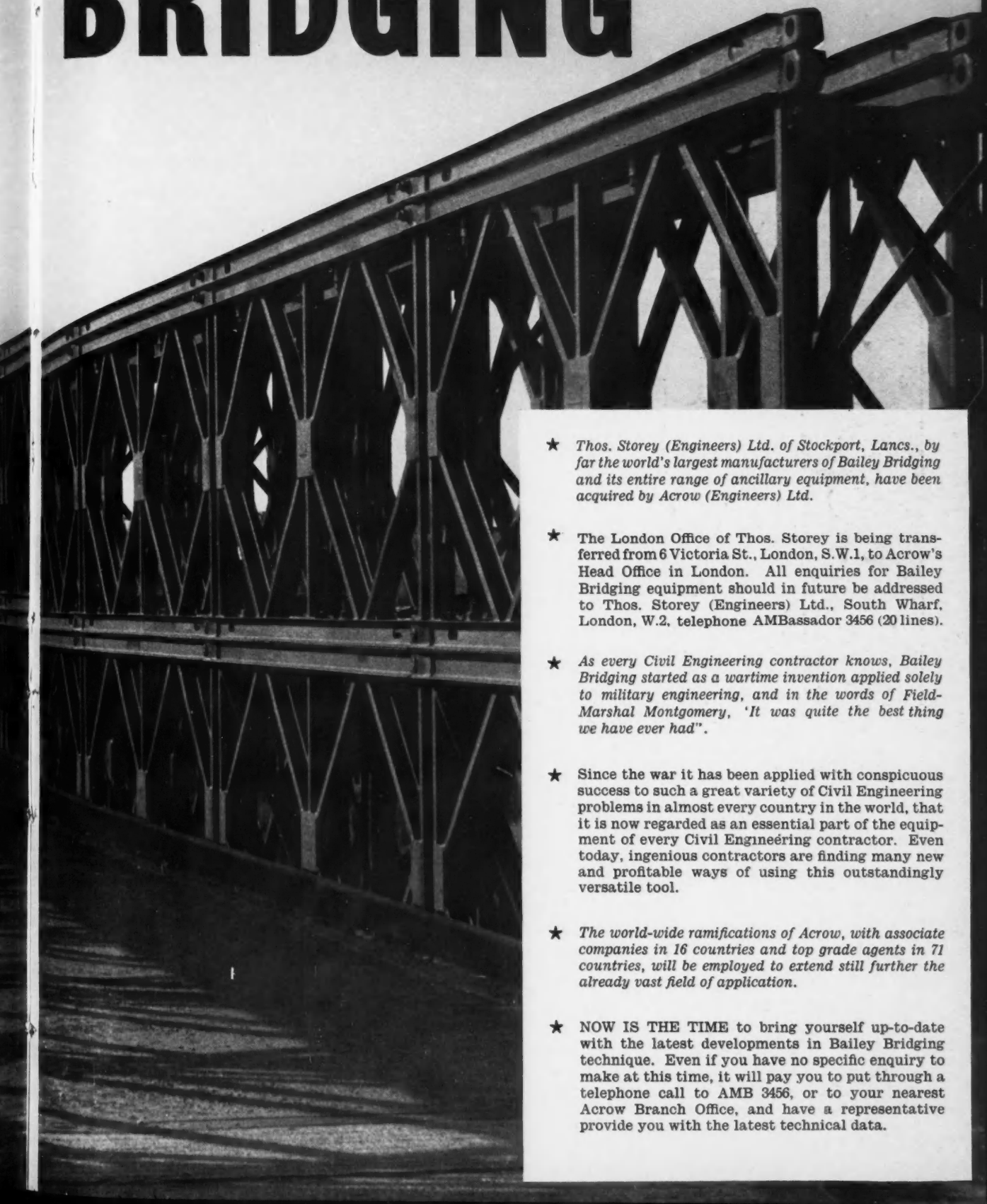

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★ The London Office of Thos. Storey is being transferred from 6 Victoria St., London, S.W.1, to Acrow's Head Office in London. All enquiries for Bailey Bridging equipment should in future be addressed to Thos. Storey (Engineers) Ltd., South Wharf, London, W.2, telephone AMBassador 3456 (20 lines).

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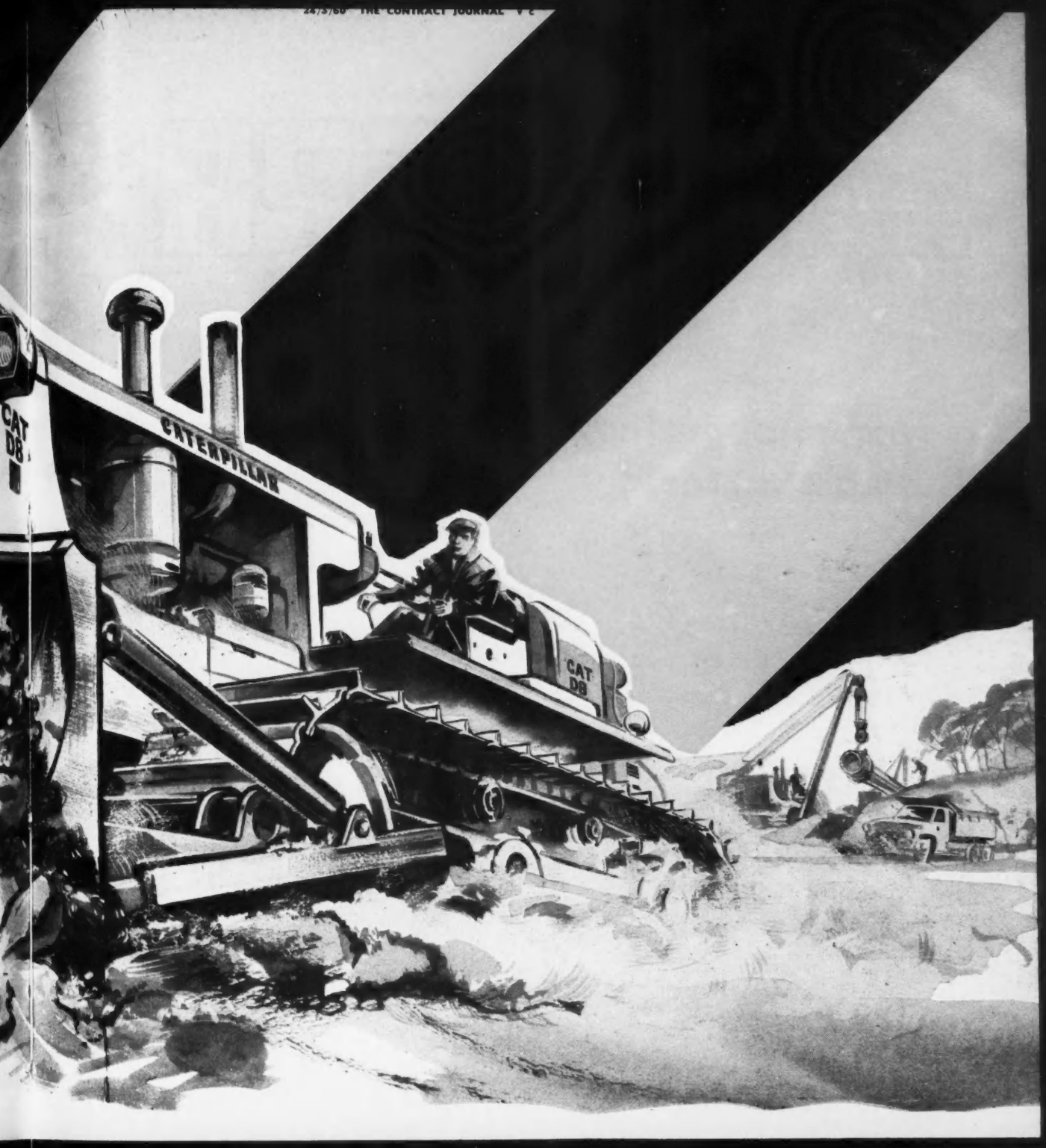

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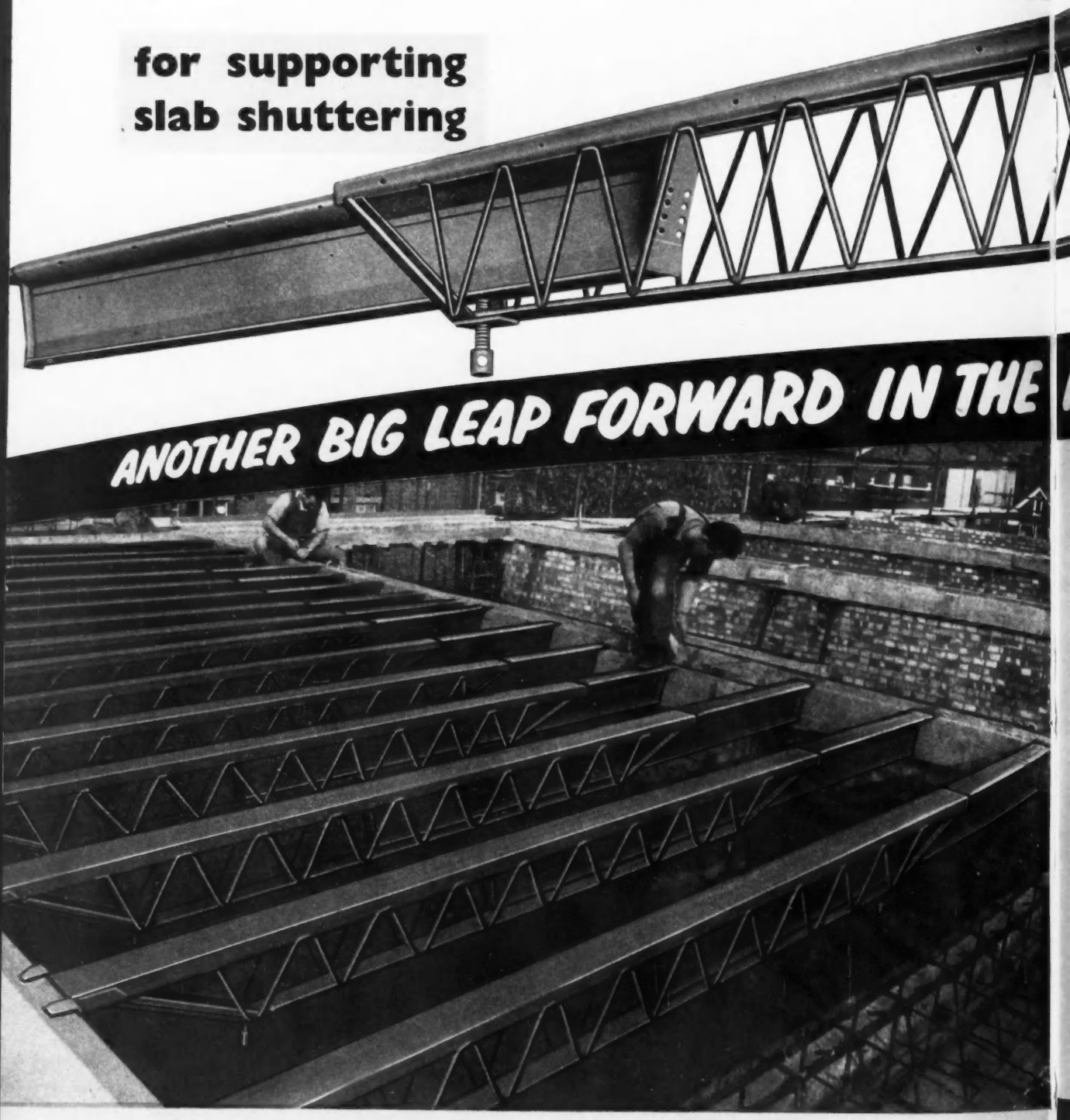

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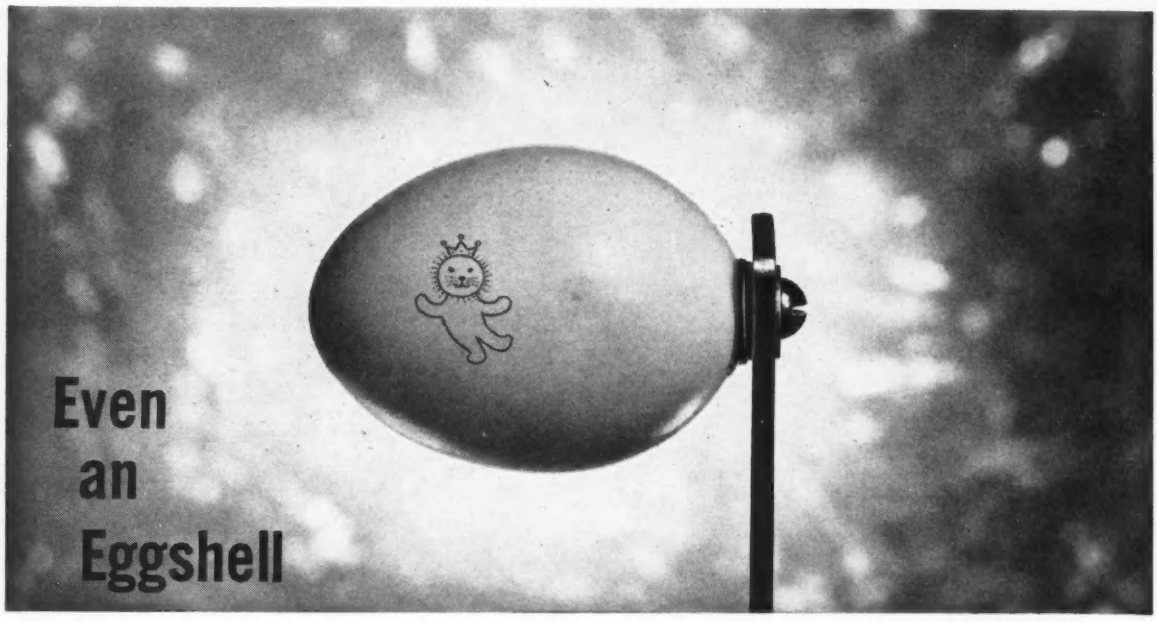

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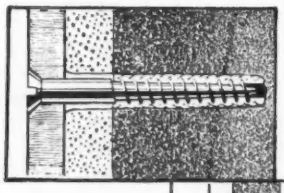

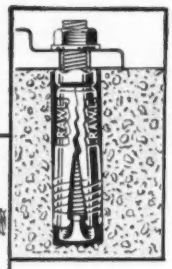

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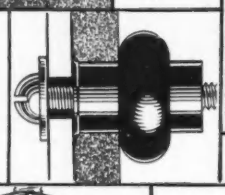

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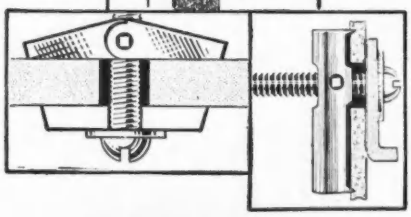

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MINISTRY ANNOUNCES BRISTOL-BIRMINGHAM MOTORWAY CONTRACTS

Journal's Exclusive Report Confirmed

A FORTNIGHT ago, on March 10 to be precise, *The Contract Journal* exclusively reported that contracts were to be signed with A. Monk and Co., Ltd., of Warrington, for the construction of approximately 28 miles of the Bristol-Birmingham Motorway.

At that time no official confirmation was available, but a week later, on March 17, the Ministry of Transport announced that Monk's £3,860,335 tender had been accepted for 12½ miles of motorway, extending from the southern outskirts of Birmingham to a point about a mile north of Warndon in Worcestershire, and that the company were expected to be awarded a £3,749,694 contract for a further 15 miles passing east of Worcester to join the Ross Spur once certain difficulties over the acquisition of land were settled.

Construction of the 12½ miles of motorway is to start shortly, and should be completed within 18 months. This new length will form a second section of the route from Birmingham to South Wales, which was started in 1958 with the construction of the Ross Spur Motorway, running from north of Tewkesbury to Ross-on-Wye. The Ross Spur is due for completion in the autumn of this year.

The northern section of the motorway, for which this contract has been let, will relieve heavy traffic congestion in Bromsgrove. It starts at Lydiate Ash, near the Birmingham city boundary, and runs west of Bromsgrove and southwards towards Warndon. At Lydiate Ash, there will be a junction with the existing A.38 and A.459 roads, and at Rashwood a two-level roundabout connection with the A.38 road.

The section includes the construction of 14 bridges over or under roads. In addition, the Birmingham-Worcester Canal will be bridged at Offerton, and the Birmingham-Worcester railway east of Droitwich.

The motorway will have two 24ft. wide carriageways, separated by a central reserve 15ft. wide. The country through which it runs is gently undulating, with steeper contours towards the northern end, near Bromsgrove. Excavations amounting to about 2,000,000 cu. yd. of earth and rock will be necessary.

The works have been designed for the Ministry of Transport by the agent authority Worcestershire County Council (county surveyor, Mr. W. R. Thomson, M.I.C.E., M.I.Mun.E.).

Further 15 Miles

As stated previously, A. Monk and Co., Ltd., are expected to be awarded the contract for a further 15 miles of the motorway once certain difficulties over the acquisition of land are settled. However, work will start immediately at the northern end of the contract on a length of 5½ miles, for which entry on the necessary land is available.

The line of route for a further extension of this motorway, from the junction with the Ross Spur, southwards to Bristol, is now being surveyed in detail, with a view to the publication later of a draft scheme.

LONDON CONTRACTORS EXTEND ACTIVITIES INTO SCOTLAND

LESLIE and CO., LTD., London, are extending their activities into Scotland with a contract for the House of Fraser to rebuild Arnott Simpsons department store, Glasgow, and a series of new shopping centres extending over most of the country for Arndale (Scotland), Ltd., a subsidiary of The Arndale Property Trust, Ltd., Bradford. Work will be directed from the contractor's new Scottish office at 206 Sauchiehall Street, Glasgow.

The new Arnott Simpsons building, a four-storey structure facing Argyle Street and Jamaica Street and backing on to St. Enoch Square, will be clad in white mosiac with the exception of the St. Enoch Square end where black granite is to be used. Work is expected to start before Easter.

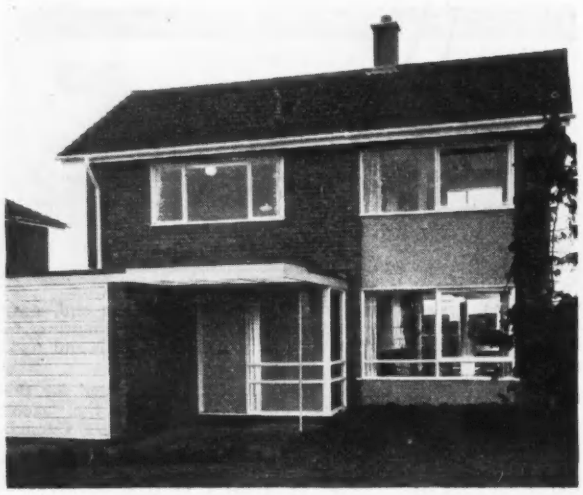
At the same time as the Arnott Simpsons contract is due to start, work will also begin on the first phase of a township centre at Drumchapel, near Glasgow, to serve a community of 40,000. The first development of its kind in Scotland, it will have about 100 shops, two banks and chain and department stores, to be planned on the "precinct" principle round courts in which there will be fountains and decorative ponds. The whole scheme will be supported by adequate car parking facilities.

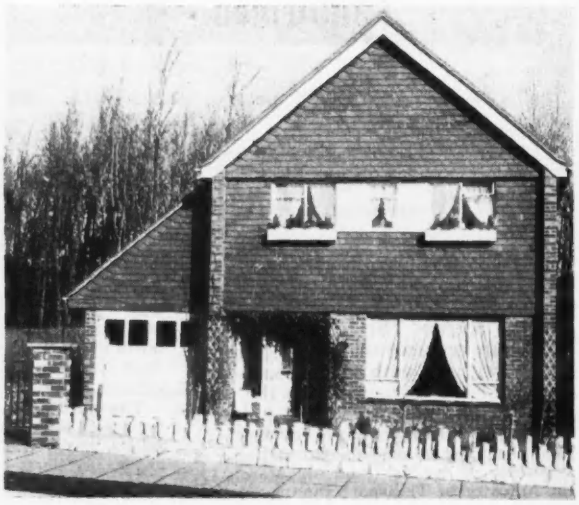
Among other areas where shopping centres are at present being developed are Aberdeen—also a "precinct" development, where building started last summer—Kirkintilloch, Dalkeith and Stranraer. The sites have been acquired by S. H. Chippindale and Co., managing agents to The Arndale Property Trust, Ltd., on behalf of Arndale (Scotland), Ltd.

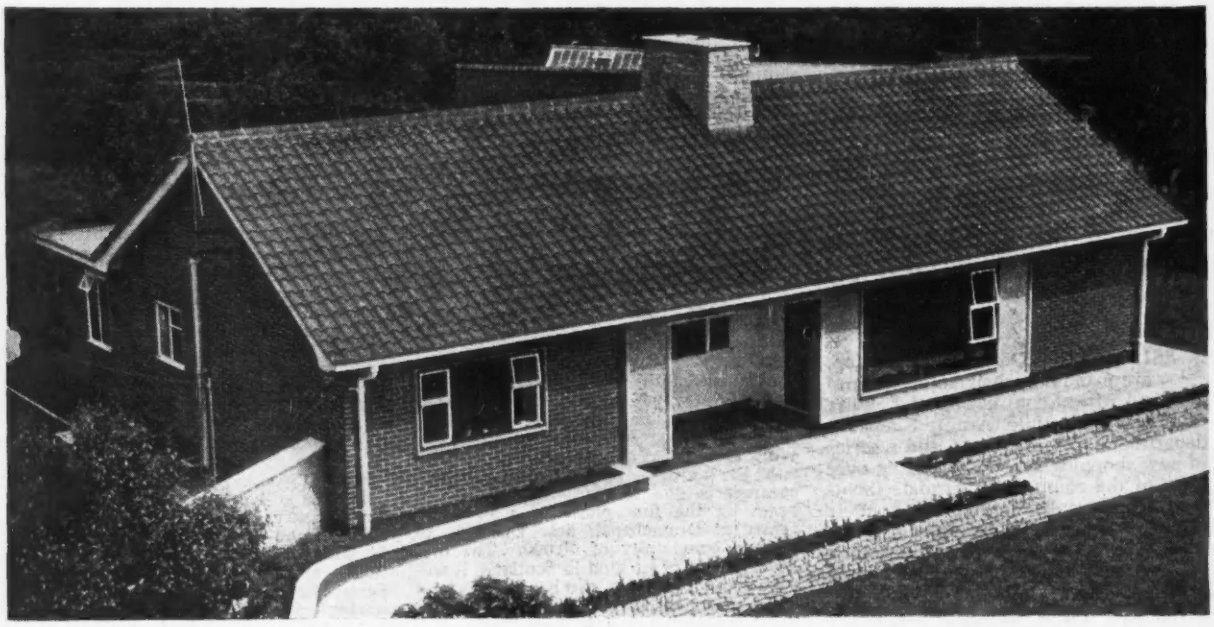
Design is by Arndale's staff architect G. M. Baxter, A.R.I.B.A. in association with Shingler and Risdon, F.R.I.C.S./F.R.I.B.A., 47 Bedford Row, London, W.C.1. F. R. Bullen and Partners, Dacre House, Dean Farrar Street, London, S.W.1 are the consulting engineers and R. G. McCaffrey, F.R.I.C.S. is the quantity surveyor.

BRITAIN'S FIRST NATIONAL HOMES WEEK

A NATIONAL HOMES WEEK, the first of its kind in this country, will take place from March 25 to April 2 under the sponsorship of the Federation of Registered House-Builders. Show houses on private development estates, such as those illustrated on these pages, will be





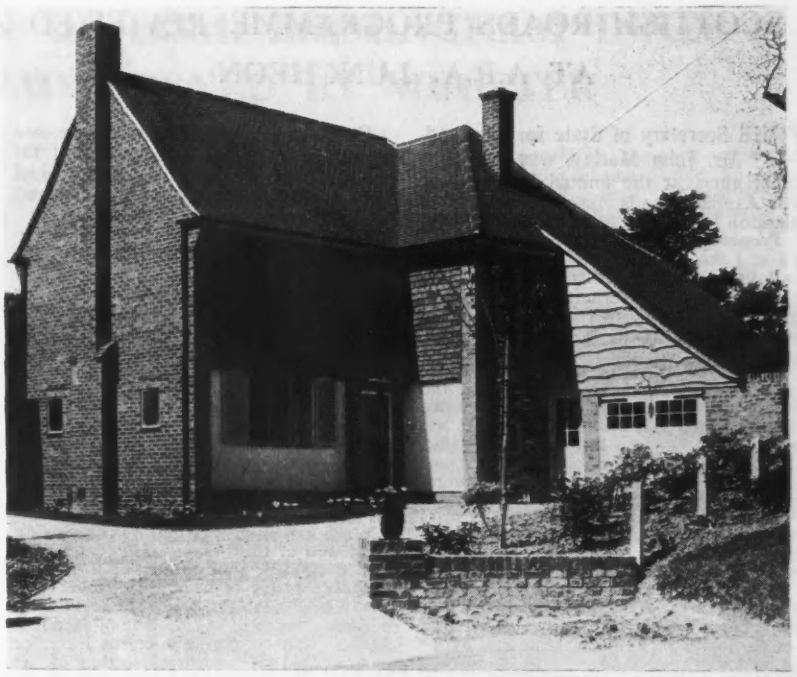


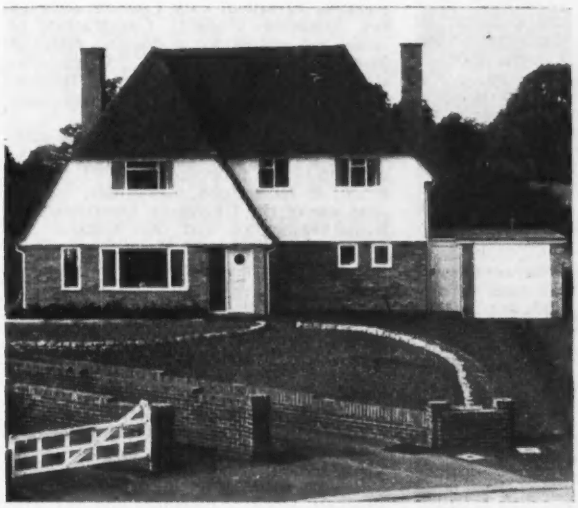
opened to the public, allowing inspection of different dwellings in a wide price range now available for purchase.

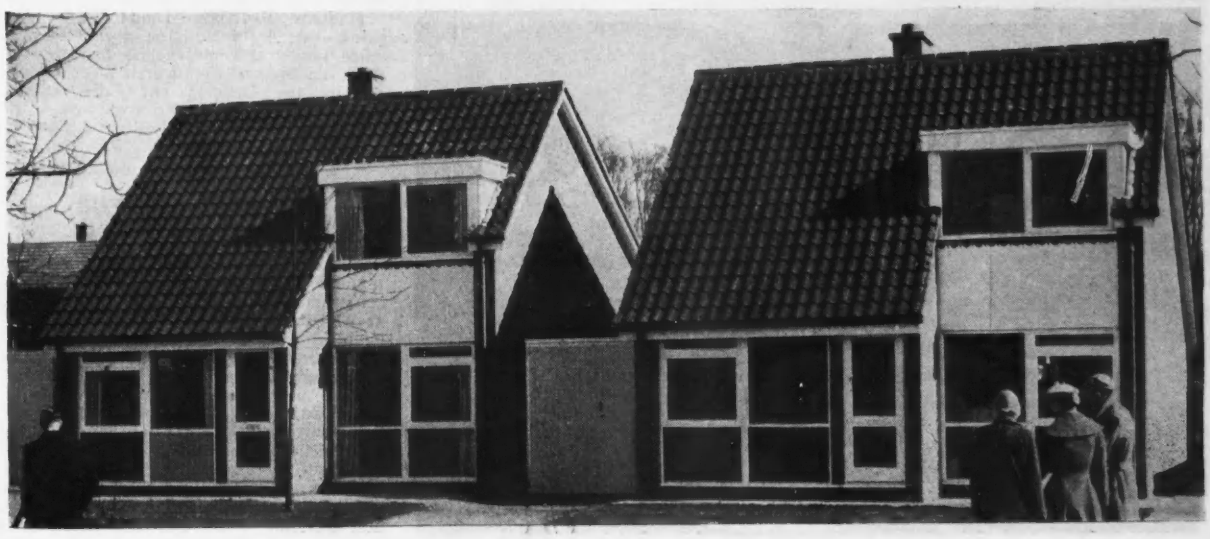
As an introduction to the Week, a special conference on Homes of the Future, at which likely trends in house design and estate layout will be discussed by an invited audience, will take place today at the N.F.B.T.E. in London.

On the facing page are shown (top) three-bedroom semi-detached houses at Redcar, Yorks. Builders: Cecil M. Yuill, Ltd., West Hartlepool. Each dwelling costs £2,275. (Left centre) The Senator house, containing three bedrooms, costs about £3,095 and is built in the Birmingham area by C. Bryant and Son, Ltd., Birmingham. (right centre) A three-bedroom house at Ratton Manor, Eastbourne. Builders: Martin and Saunders, Ltd., Eastbourne. Price £2,800, exclusive of land. (Bottom) Built by A. E. Cox and Co., Ltd., Leicester, at Stoneygate, Leicester, this two-bedroom bungalow, which costs about £10,000, has underfloor central heating and is of the highest quality detailing and finish.

On this page the photographs show (top) a house erected to the owner's requirements by Phillips and Cooper, Ltd., Stanmore, Middx. Such dwellings cost between £5,000 and £8,000. (Left centre) Another house by A. E. Cox and Co., Ltd. A three-bedroom type with central heating, it is situated at Kibworth Harcourt, Leics., and costs £4,750. (Right centre) At £3,700, this three-bedroom West Hartlepool dwelling is centrally heated. The builders are Cecil M. Yuill, Ltd. (Bottom) The Queenhythe detached houses, linked by car ports, are built by John McLean and Sons, Ltd., Wolverhampton, and sell at approximately £2,925 each.







SCOTTISH ROADS PROGRAMME REVIEWED AT A.R.A. LUNCHEON

THE Secretary of State for Scotland, Mr. John Maclay, was the principal guest at the annual luncheon of the Asphalt Roads Association, held in London last week.

Proposing the toast of "The Association," he said that because of the great increase in tourist traffic in Scotland it was incumbent upon the Government to provide a first class road system to cater for this traffic, as well as for the heavy industrial traffic, in various parts of the country.

After reviewing a number of major schemes, including the Forth Bridge and Whiteinch Tunnels under the Clyde, Mr. Maclay stated that although they were not doing work like the M.1 he was satisfied that they were tackling Scotland's problems in the right way. The programme was comprehensive in its scope, and asphalt was being extensively specified. Over the years his Ministry had good cause to appreciate the material with which the Association worked.

Replying, Mr. R. U. Law, retiring-chairman of the Association, said that they were encouraged by all the data given by the Secretary of State about the new works to be done in Scotland.

He stressed that while hot asphalt was now widely recognised as a pre-eminent road surfacing, it also had a much larger part to play in the future as the base material for roads. He also urged that everything possible should be done to stop interfering with the increasing flow of traffic by the reduction of maintenance to a minimum.

Mr. Law finally congratulated the Ministry of Transport and all concerned with the London-Yorkshire Motorway project. "The public must not forget that in this congested island our Ministry and public authority engineers have particularly difficult tasks in improving our road system."

Guests at the luncheon were welcomed by Mr. F. A. B. Luke, a member of the Association. Mr. J. F. A. Baker, chief engineer (highways), Ministry of Transport, responded.

Annual Review

In their annual review for 1959, the A.R.A. state:

For many years the Association, in common with other organisations interested in the supply of road materials and concerned with providing an adequate road system in this country, has urged successive Ministers to devote more funds to the developments essential if growing traffic demands are to be met. It is, therefore, with pleasure that members have noted the dynamic approach to the problem by the present Minister in following and extending the road programme initiated by his immediate predecessor.

Work has progressed during the year on a revision of the 1958 edition of B.S. 594 Rolled Asphalt (hot process). The main purpose of this revision is to cover thin application mixtures which hitherto have not been included in any British Standard for hot asphalt. These mixtures are to be incorporated as a separate section of the Standard as they are only applicable to work of a remedial nature.

The Technical Committee has been particularly active dealing with the revision of B.S. 594 and with the preparation of a suitable specification for white mastic to be included in the forthcoming British Standard for road-marking compounds.

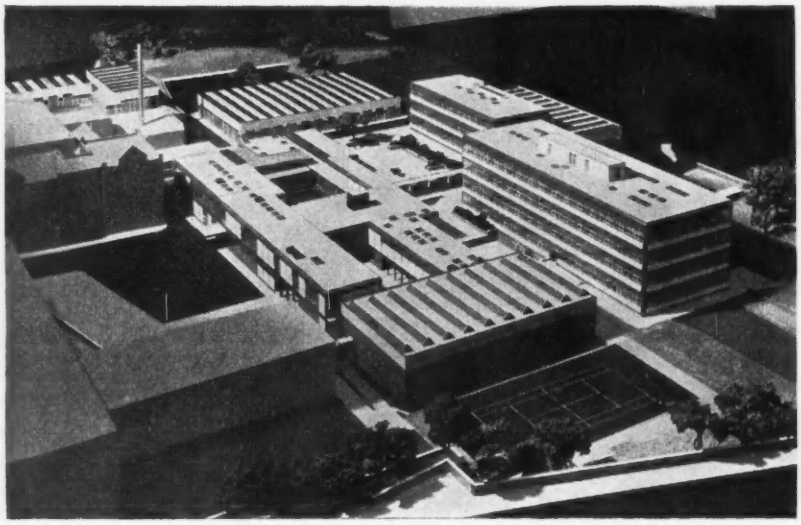
Increasing use has been made by engineers of the Association's Technical Advisory Bureau. In particular, as a result of the greater interest in asphalt bases for foundations the Association has appointed a Specifications and Design Committee charged specially with preparing the best recommendations which of necessity call for full reviews of local conditions.

£650,000 PRESTON COLLEGE EXTENSION

THE £650,000 scheme for extending the Harris College of Further Education, Preston, Lancs.—one of the major projects in the Government's £160m. technical expansion programme—is now under way. Holland & Hannen and Cubitts (North West), Ltd., the main contractors, recently commenced work on the site and are due to complete the job in early 1962.

The project has been designed by the Development Group, Ministry of Education's Architects and Buildings Branch, in consultation with the Borough Engineer of Preston, with Architects Co-Partnership collaborating. A. J. and J. D. Harris are the consulting engineers.

The photograph of the model shows: centre foreground, games hall, behind which is the administrative block; right foreground, four-storey specialist teaching block; right background, heavy laboratories and three-storey general teaching block; and left and centre background, building and mechanical engineering workshops.



Late Construction News

BASILDON HOUSES.—Leslie and Co., Ltd., Peel Street, London, W.8, have been awarded a £572,000 contract by Basildon (Essex) Development Corporation for the erection of 320 dwellings at Vange neighbourhood. Work will start shortly. The architect is William Crabtree, 8 Robert Adam Street, London, W.1, in association with the chief architect planner of the Corporation, A. B. Davies. E. C. Harris and Partners, 7-12 Tavistock Square, London, W.C.1, are the quantity surveyors.

POLICE STATION CONTRACT.—The Metropolitan Police have placed a contract with Harry Neal, Ltd., 117 Baker Street, London, W.1, for the erection of a divisional police station and married quarters at Gloucester Circus, Greenwich, London, S.E.10. The cost will be about £200,000.

DWELLINGS BY DIRECT LABOUR.—Subject to Ministry approval, Bermondsey B.C. are to accept the £147,529 estimate of their direct labour department for the erection of 64 dwellings in two four-storey and one six-storey blocks at Slippers Place site.

LONDON FACTORY AND OFFICES.—Work will begin next month on building factory extensions and new head offices for Innoxa (England), Ltd., at Balls Pond Road, London, N.1. The contract, worth about £137,000, has been placed with W. and C. French, Ltd., Buckhurst Hill, Essex. Plans are by Lewis Solomon, Kaye and Partners, Thavies Inn House, Holborn Circus, London, W.C.1.

LIVERPOOL CONTRACTS.—At their recent meeting, Liverpool City Council accepted the following tenders: Construction of roads and sewers for a housing estate at Mackett's Lane — D.C.M. Contractors (Liverpool), Ltd., Bluebell Lane, Huyton, £297,770; 128 dwellings at Beechwood—Direct Labour, £236,945.

CAMBRIDGE MEDICAL SCHOOL.—A contract is expected to be placed soon for the erection of the proposed £350,000 medical school at Hills Road, Cambridge, for the joint use of the University Department of Radiotherapeutics and the Medical Research Council Unit of Molecular Biology. The building is scheduled for completion by July, 1961. Consultants for the scheme are: Easton and Robertson, architects, 53 Bedford Square, London, W.C.1; Hamilton Turner and Son, quantity surveyors, 19 Queen Anne's Gate, London, S.W.1; Ove Arup and Partners, structural engineers, 8 Fitzroy Street, London, W.1; and Brandt and O'Dell, mechanical and electrical engineers, 12 Queen Anne Street, London, W.1.

19-STOREY BLOCK.—The L.C.C. are inviting tenders from selected contractors, due next month, for the erection of one 19-storey block of dwellings and one two-storey block at Spring Walk, Stepn Plans are by the Council Architect, and quantities by R. A. Harwood and Partners, 49 St. Petersburgh Place, London, W.2.

HARLOW FACTORY.—Tenders are now being invited for building a factory and office block at Templefields, Harlow, for R. F. Thompson (Engineers), Ltd. Plans are by the Development Corporation's Architect, and the quantity surveyors are Langdon and Every, 21 Russell Square, London, W.C.1.

TENDERS SOON FOR QUEENSFERRY BRIDGE

Flintshire County Council are to invite tenders in April or early May for the construction of the £1m. by-pass and bridge at Queensferry. Work is expected to begin in August.

The first stage of the scheme provides for the erection of a bridge over the River Dee, a new bridge under the Chester-Holyhead railway, and provision of a four-lane carriageway from Drome Corner, Sealand, to Queensferry Secondary School. Work on the remaining section of road, between the school and Ewloe roundabout, is expected to start on completion of this first section.

FIRST SECTION OF £23M. BIRMINGHAM INNER RING ROAD OPENED BY MINISTER

THE segregation of pedestrians from vehicular traffic, deemed by the Minister of Transport to be such an important aspect of modern road development, has been carefully provided for in Birmingham's £23m. Inner Ring Road, the first length of which he recently declared open.

On this scheme, segregation has been accomplished by the provision of pedestrian underpasses at frequent intervals; by the end of this year eight or nine of these pedestrian ways will be available.

The section opened by the Minister, from Horse Fair to Worcester Street, is nearly 400yd. in length, and is the first part of a phase which will give an improved route between Five Ways (A.456) and Digbeth (A.41). It has taken three years to complete and cost £1,160,000 for land and works, or £2,900 per yard for the new dual carriageway.

Advisory Panel

An Inner Ring Road for the central area of Birmingham was envisaged in 1918, but it was not until 1939 that serious thought was given to the planning of the road. During the war years an advisory panel, consisting of representatives of various commercial and professional associations in the city, was appointed in connection with the preparation of a planning scheme, dealing among other things with the central traffic problem.

Certain principles were established, such as:

(1) Traffic having no business in the city shopping centre should be diverted.

(2) Vehicles having business within the centre should not be subject to restrictions but should be allowed to circulate freely to the required premises.

(3) The routes fixed for public service vehicles should bring passengers into the heart of the city and within a reasonable distance of all parts of it. It was suggested that no one should have to walk farther than 300yd. from an omnibus route.

(4) The streets should be adapted to their purpose, e.g., busy shopping streets should not be wide traffic arteries.

(5) The spread of the first-class shopping and commercial area beyond its present limits should be encouraged.

It was in July, 1943, that the City Council approved in principle proposals for the layout of the inner ring road. In 1944 approval was given to the acquisition of land required for the scheme, estimated at £12,088,800, and to carrying out the roadworks at an estimated cost of £2.5m. Today these figures are estimated at about £15m. and £8m., respectively.

A Bill was presented to Parliament in the Session 1945/46 to enable the scheme to be carried out.

In February, 1955, the City Council approved proposals for the construction of section 1 of the scheme (Suffolk Street to Carrs Lane) and section II (Upper Priory to Bath Street) approval was sought of the Minister of Transport and Civil Aviation. The Minister included the first section of the scheme in the Ministry's Four Year Programme, 1955-59, and in January, 1957, approval was given to the commencement of the works.

Pedestrian subway under Ringway at Hill Street-Hurst Street junction

Concrete Viaduct

The road is 110ft. wide, with 15ft. footpaths and dual carriageways 38ft. in width, each providing three lanes of traffic and an 8ft. wide waiting lane alongside the

View along the completed section of the Inner Ring Road (Smallbrook, Ringway)

kerb. The central reservation is 4ft. wide with a dwarf wall surrounded by a reconstituted stone "flower box." In order that drivers will know when they are on the ring road the through carriageway is surfaced with red asphalt.

An interesting feature of this part of the scheme is that half the length of the first section is carried on viaduct and bridges Dudley Street. The viaduct consists of reinforced concrete main beams, 52in. deep, carried on four columns at 30ft. centres. The main beams are about 25ft. apart and support the decking which consists of 12in. by 13in. prestressed precast concrete beams.

Beneath the viaduct is a car park for 150 to 180 cars and also room for a bus station. The cost of the works for the car park is being borne by the Birmingham City Council, who intend to provide car parks under viaducts at other points.

This first length includes one large subway with kiosks for the sale of newspapers and cigarettes, show cases, public conveniences and telephone kiosks. To encourage pedestrians to use the subway, footpaths on the ring road and on Hurst Street and Hill Street slope down gradually forming easy access for pedestrians. Shop windows are continuous down the slope so that shoppers do not realise they are being led down to the subway.

Already, the 15ft. pavements are flanked with shop and office buildings, which follow the curve of the road to form a handsome crescent not unlike the Regent Street quadrant. At the Bull Ring—famous for its street market—the road divides and forms a loop around the derelict market hall, the site of which is to be redeveloped with gardens and an open-air market. Work on this part of the road is expected to be completed by the end of the year.

A multi-storey garage is being built on one side of the Bull Ring area, and on the other side of the inner ring road and linked with it by a service road, a subway runs deep into the hillside for lorries delivering goods to basements of business premises. Some 200 lorries use the subway daily.

A grant of nearly £609,000 towards the cost of the completed length has been made by the Minister of Transport, and he has promised grants totalling £1,734,000 towards the cost of the next two lengths on which work is in progress.

The planning and supervision of construction of the Inner Ring Road is by the Birmingham Public Works Department, under the City Engineer, Sir Herbert Manzoni, C.B.E. Excavations, sewers, and road construction on the first section were carried out by Foxlee Contractors (Birmingham), Ltd. The viaduct structure was built by C. Bryant and Son, Ltd., and the asphalt surfacing was laid by Limmer and Trinidad Lake Asphalt Co., Ltd.

High Intensity Lighting

Soon after the opening of the road by the Minister, the new public lighting along its length was switched on by the chairman of Birmingham's Public Works Committee, Councillor D. S. Thomas.

This installation has been designed to give illumination on each carriageway not less than that provided in the city's main shopping streets, New Street and Corporation Street, where the light from the lanterns in the lower hemisphere is in the order of 30,000 lumens per 100ft. of roadway.

Many forms of high intensity lighting installed in Britain and the Continent were considered before it was decided to develop a new post top unit incorporating colour-corrected mecury lamps. The lantern was designed in the Public Works Department and consists of a domed aluminium canopy and dished translucent perspex bowl, the overall dimensions being 4ft. 6in. in diameter and 1ft. 6in. deep.

In each lantern are three 400-W MBF/U lamps (colour-corrected mercury) and the light output in the lower hemisphere is 36,000 lumens. The lanterns are mounted on slender steel poles 30ft. high, at 100ft. intervals, opposite to each other, on the outer kerbs.

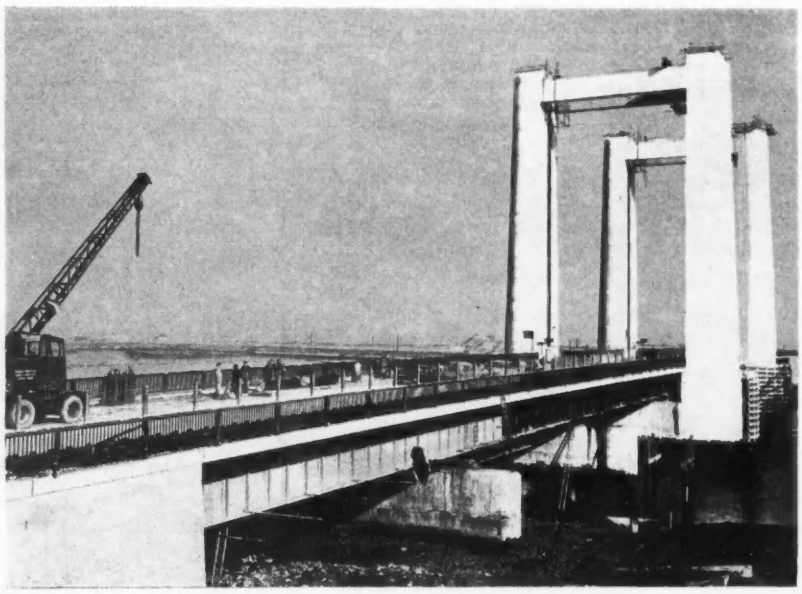
The General Electric Co., Ltd., cooperated with the corporation in producing a prototype lantern and working drawings and are responsible for the manufacture of the lanterns.

Grant for Underpass

Mr. Marples announced in a speech following the opening that he had promised a grant of £585,000 to Birmingham Corporation towards the cost, estimated at £967,500, of constructing an underpass to carry Birchfield Road (A.34) under the Outer Ring Road. The present junction forms one of the worst traffic bottlenecks on the main radial road from the city centre to Walsall and the north-east.

The underpass will carry all traffic through on the A.34 at this junction. Slip roads and a roundabout at surface level will provide for turning traffic and traffic on the Outer Ring Road. It is the first of two similar projects for grade separation at intersections on this route within the city, the other being at Six Ways, Aston. A feature of the scheme is the provision of carriageway heating in the underpass to prevent the formation of ice.

The scheme, which will be carried out by contract, has been designed by the City Engineer and Sir William Halcrow and Partners. It is expected to take about 1½ years to complete.



On April 20, the Duchess of Kent will formerly open the new Kings Ferry road-rail bridge connecting the Isle of Sheppey with the Kent mainland. Built at a cost of over £1m., the bridge has been designed by Mott, Hay and Anderson. The contractors are John Howard and Co., Ltd.

EARNINGS IN THE ENGINEERING PROFESSION

Commenting on the recent report of the Royal Commission on Doctors' and Dentists' Remuneration, The Engineers' Guild says: The comparative figures for professional earnings by the members of 10 leading professions in Great Britain, which have now been published in the report, show how disastrously wide is the gulf between theory and practice in the attitude of the community towards the engineering profession.

In the view of the Government and its advisers, widely expressed for several years past, sufficient numbers of professional engineers are essential to the continued prosperity of the country: the numbers required are increasing steadily and this increase is likely to continue at least for the next ten years: over the whole profession, the supply has never yet been sufficient to meet the demand and is not expected to do so in the immediate future.

In these circumstances it would be natural to expect the engineering profession to be respected and its members well rewarded for their services; instead the figures show that not only is it poorly remunerated but that it stands in public esteem, if levels of payment constitute any guide, among the most humble of the professions today.

Although the graphs published in the report appear to indicate the medical profession as generally occupying a superior economic position compared with the other professions, the Commission see no obstacle in this to their concluding that earnings in the medical profession are too low. In such circumstances, and particularly if the Commission's recommendations are accepted, early consideration by the Government of the economic problems confronting members of the engineering profession is essential.

A.E.U. OPEN TENDERS IN PUBLIC

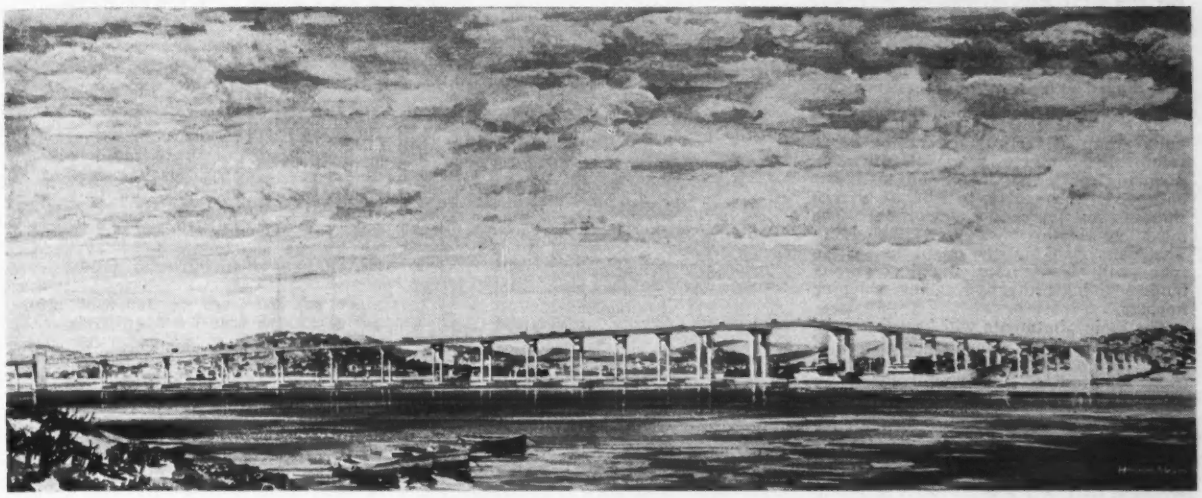
A custom that has fallen into disuse since the war was revived last week by the Amalgamated Engineering Union when tenders for their new offices were opened in public.

The tenders, which had been invited from six selected contractors for the erection of a four-storey office block and basement at Lyndhurst Way, Peckham, were opened by the president of the Union, Mr. W. J. Carron. At £115,845, the lowest tender was that submitted by Griggs and Sons, Ltd., London, S.W.1, and Mr. Carron announced that, subject to checking, it could be assumed that this offer would be accepted.

Poulton and Freeman, 6a Wyndham Place, London, W.1, are the architects for the building.

Full membership of the Institution of Structural Engineers will in future be accepted as a qualification for membership of the Association of Consulting Engineers.

International Construction



Artist's impression of the Hobart Road Bridge

WORK STARTS ON HOBART ROAD BRIDGE

Multi-span Structure, 4,649ft. Long

THE British consortium of Reed and Mallik, Ltd., Salisbury, Wilts., and Braithwaite and Co. (Engineers), Ltd., London, recently awarded the contract for construction of the Hobart Bridge, are about to begin work on the project. Men and equipment are being moved on to the site and within the next few weeks a start will be made on building the temporary staging.

The bridge—designed by G. Maunsell and Partners, London, consulting engineers to the Tasmanian Government, with assistance on the deck design from E. W. H. Gifford and Partners, Southampton—is a multi-span structure, 4,649ft. long, spanning the River Derwent, with approach viaducts on both banks.

Totalling 3,364ft. in length, the main bridge comprises a central navigation span of 310ft., two flanking spans of 197ft., 13 spans of 140ft. on the west side and six similar spans on the east side of the navigation spans. The main span will provide a clear navigation opening 240ft. wide, with a clearance height of 150ft. above mean sea level over a width of 180ft.

A 44ft. carriageway will be flanked by footways, 4ft. 6in. wide, on both sides, and there will be provision for main services beneath the footway paving.

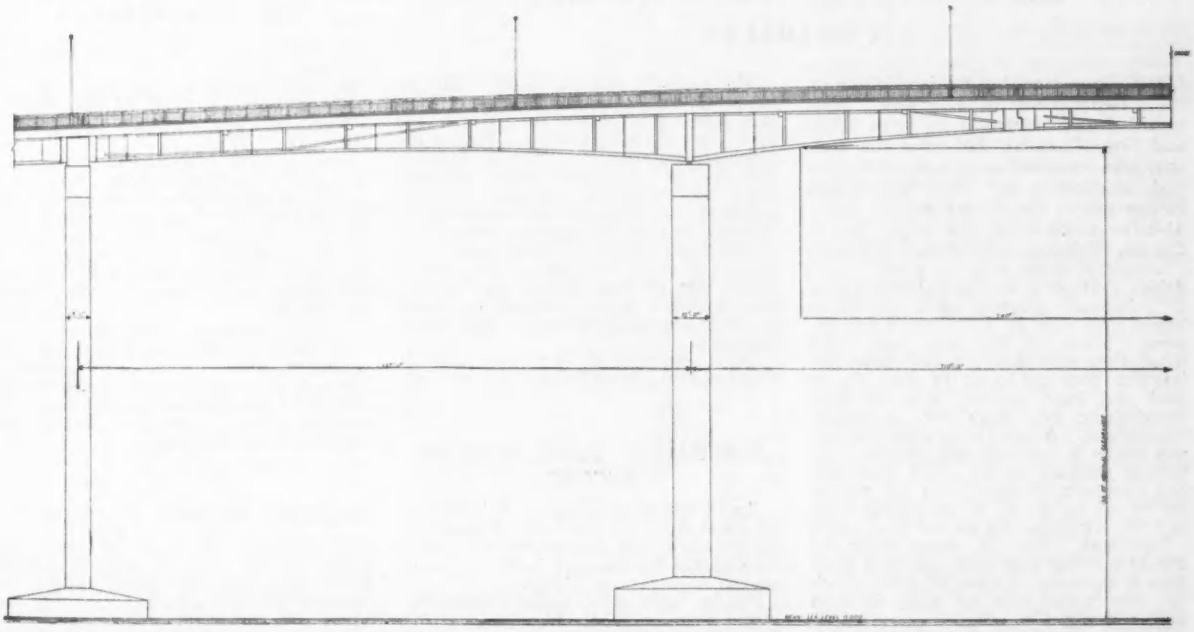
106ft. Cantilevers

The main navigation span will comprise a suspended span 98ft. in length, supported on cantilevers, each 106ft. long, extending from the adjacent 197ft. spans. Provision for temperature, shrinkage and creep movements will be made at three points only in the main part of the bridge, namely at one end of the suspended span and at the outer ends of the flanking spans.

The remainder of the bridge between main abutments will be made up of a series of continuous spans anchored at the main abutments, which will be sited close to the river banks.

The deck structure will comprise six parallel precast concrete beams with strands post-tensioned by the Gifford-Udall system and with a composite precast and in-situ deck slab. The deck beams will be carried on crossheads, mounted on prestressed concrete columns which will, in the case of the four piers supporting the navigation spans, be of box section, providing adequate strength and rigidity to resist horizontal thrusts in all directions.

An interesting feature of the remainder of the structure over the river, namely the series of continuous 140ft. spans on either side of the navigation section, is that the



Elevation of navigation spans

comparatively large deck movements resulting from temperature changes, shrinkage and creep will be absorbed by flexure of the supporting columns. These will be slender units of prestressed concrete construction, precast and post-tensioned by the Lee-Macall system, fixed at the base and hinged at the top on Freyssinet concrete hinges.

Each of the 21 river spans is founded on a group of vertical and raking bored reinforced concrete piles of 4ft. 6in. diameter varying in length up to 170ft., and driven through up to 90ft. of alluvial deposits to the underlying rock. The maximum depth of water is about 120ft. The piers flanking the main navigation span will incorporate massive gravity fenders giving protection against shipping impacts.

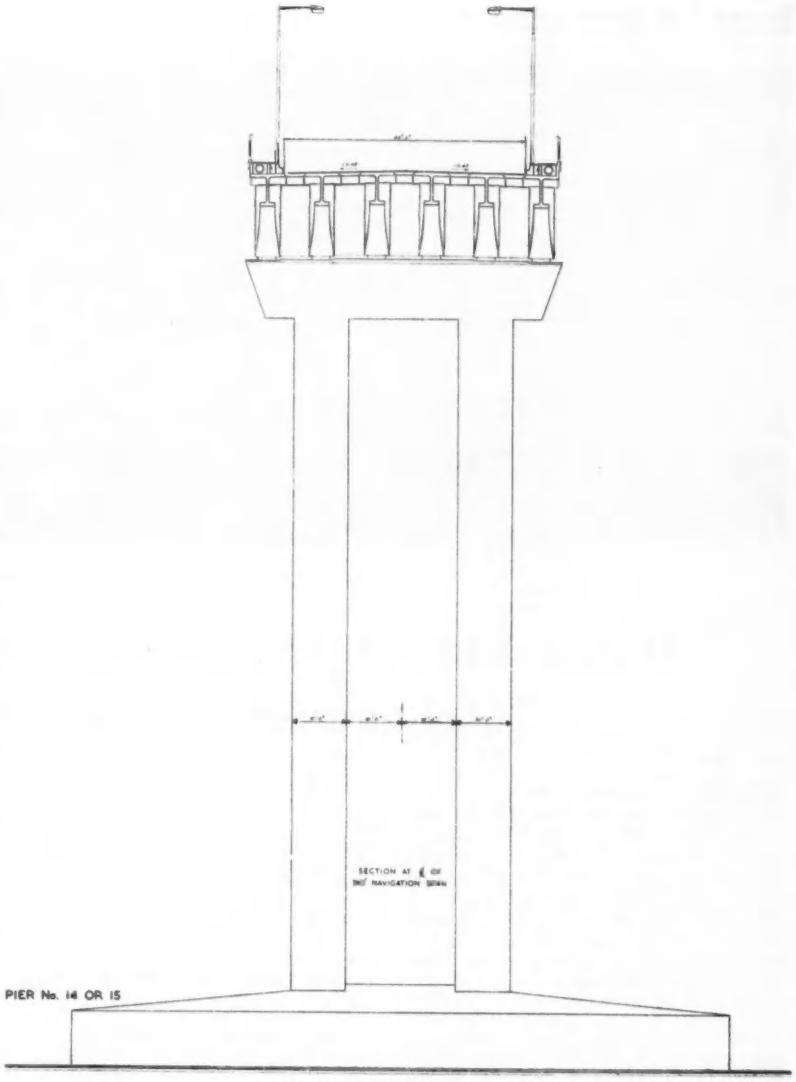
The main abutments will be substantial reinforced concrete structures designed to resist the overturning moments resulting from longitudinal and lateral forces in the bridge deck. To the west of the main western abutment are a series of short spans of prestressed precast concrete, arranged to form a flyover junction and allowing uninterrupted flows of traffic between the northerly and southerly approach roads and the bridge.

The eastern approach viaduct comprises a series of 70ft. spans of precast prestressed concrete construction, each span being simply supported at its ends and connected to the adjacent span in order to transmit longitudinal forces but not bending moments. The supporting columns, founded on rock, will flex in a manner similar to the main viaduct columns in order to absorb movements of the deck.

Piling will be carried out using a floating steel template which will be anchored to massive concrete blocks resting on the river bed and holding the floating structure below the range of tidal movement. This template will also provide shuttering to the soffit of the pile caps.

The erection of the superstructure will be carried out using structural steel column and beam units of lattice construction, which will be erected on pontoons and floated out to the bridge site where it will be supported on the pile caps. This will carry heavy lifting plant capable of dealing with precast beam and column units up to 100 tons in weight.

The constructional work is due to be completed in 1963.



Cross section of navigation span

LAING AWARDED MAJOR CANADIAN CONTRACTS

THE Government of British Columbia, Department of Highways, have awarded two contracts to John Laing and Son (Canada), Ltd., for the construction of reinforced concrete piers and abutments for the Port Mann Bridge across the Fraser River, and a 3¼-mile section of the new Trans-Canada Highway, west of Burnaby Lake.

Valued at about $3.8m., the Port Mann Bridge contract is for the construction of 25 reinforced concrete piers varying in height from 40ft. to 117ft. above foundations. Seven of the piers have piled foundations with sheet pile cofferdams and injection concrete bases; 16 piers are on land and have various types of piled foundations; two piers are on spread foundations. A reinforced concrete railway trestle is also included, together with various ancillary works. Five piers and one abutment, together with the trestle, are on the south side of the Fraser River and the remainder are on the north side.

The work brings an export order for Britain for steel pipe piles and steel sheet piles to the value of some $570,000, which has been placed with the South Durham Steel and Iron Co., Ltd.

Work started this week with completion in 20 months.

The second contract, to the value of about $2.1m., comprises 3¼-miles of four-lane highway which will form part of the new Trans-Canada Highway. Part of the route crosses areas of thick peat deposits, and sawdust lightweight filling and sand drains will be used in construction. It is expected that there will be approximately 200,000 cu. yd. of sawdust filling and 10,000 12in. diameter vertical sand drains, ranging in depth from 20ft. to 60ft., penetrating the fill and existing soft ground. Also included in the contract are earth works in conection with three large interchanges.

Work commenced last week and is scheduled for completion by June 30, 1961.

AUSTRALIAN HOME BUILDING RECORD

An all-time record in house building was set up in Australia last year. Preliminary figures show that during the year more than 80,000 houses were built, and work started on a further 76,000.

Nearly 5,000 more houses were completed than in 1958. In addition 8,000 flats were built, 3,000 more than in the previous year.

STEEL PRODUCTS INDUSTRY FOR NEW ZEALAND

A £20m. development company, which proposed to manufacture iron, steel and other metal products in New Zealand, was planned for this year by the Korman Group, Mr. Hilel Korman announced in Auckland recently.

The company proposed to manufacture the smaller gauges of steel rod; black, bright and galvanised wire for making nails and fencing materials; wire ropes for the New Zealand and export markets; wire products including wire netting and types of woven and mesh wire; and steel, galvanised, cast-iron and non-ferrous pipes and fittings.

The company would be known as the New Zealand Development Company, Ltd. It would have an initial paid capital of £3m., of which 60 per cent. would be subscribed in New Zealand and the remainder obtained from Australian, British and United States companies.

AERIAL SURVEY IN GHANA

A contract for an aerial geophysical survey of two areas of Ghana totalling 6,600 sq. miles has been awarded to Hunting Surveys, Ltd., London. The two areas are important mineralised zones, containing most of the gold and manganese mines of Ghana.

John Sumner's Notebook . . .

IS the threat of direct labour to the building industry growing? Listening to some of the comments at this year's annual meetings of building federations it would be easy to imagine that the number of local authorities setting up direct labour departments is steadily increasing.

This may not be the case, for some figures given by Mr. Henry Brooke in the House the other day were more than a little illuminating. It appears that out of the 1,469 housing authorities in England and Wales the number who make use of direct labour on some or all of their house construction has been declining in recent years. There were 179 in 1950, 167 in 1953, 156 in 1956 and only 139 in 1959. It may be that the decline in local authority house-building in recent years has something to do with this. If that is the case then it would be interesting to know whether the number of direct labour units engaged in other types of large-scale local authority work has increased over the same years. If it has then it would seem that the non-house-building contractors have taken over some of the competition burden from the private house-builders.

Mr. Brooke was replying to a question from Mr. P. Emery, the Conservative member for Reading, who also wanted to know how many direct labour units were employed in respect only of care and maintenance. Mr. Brooke had no information on this. This is a pity, for this is a field in which local authorities habitually deploy their direct labour personnel whenever the major construction works shrink or diminish. And the economics of the practice are more than a little suspect.

LAST summer work on the site of a store project in Birmingham started at 4 a.m. each day. Because of the virtually inaccessible location of the new building during the day due to its position at the busiest junction in Birmingham—Corporation Street and Bull Street—this was the only way to get materials delivered whey they were wanted and where they were wanted. Four o'clock in the morning is an early start for building operations by any standards, and the arrangement was typical of the spirit of enterprise which has imbued the staff and personnel of Taylor Woodrow, the contracting firm concerned, since its earliest days in 1921. Mr. Frank Taylor, the company's chief and founder, is the epitome of this spirit. His company's symbol—the tug-o-war men exemplifying teamwork — is known throughout the country and in distant lands overseas besides. It was a proud evening for him last February when over 500 guests, including Lord John Hope, the Minister of Works, friends and members of his team went to Grosvenor House for a brilliant reception in the ballroom to mark the 25th anniversary of the firm as a public company.

How is it that in the comparatively short space of 40 years or so a firm can grow to this mammoth size and build up a name renowned throughout the world? I suspect that if Frank Taylor were asked this question his answer would be given in one word—"Teamwork." He inspires the team in many ways but one I found interesting seems to be worth passing on. It is the suggestion scheme competition run within the firm. It can almost hear the sneers of the cynics. But the fact remains that during 1959 the Taylor Woodrow Group's scheme resulted in 363 suggestions being received, 107 of which were rewarded and 25 are under consideration. Each year a prize of £100 is awarded to the member of the team making the best suggestion. In this firm, it appears, there are rewards for brains as well as for handiness with the building tools, if only their owners want to use them.

THERE are some interesting comments about the outcome of this year's wages negotiations in the contracting industries in the current issue of the *Operative Builder*, the official journal of the N.F.B.T.O. The author of the comments blames the extension of the gap between craftsmen's and labourers' rates on the existence of two agreements, one for building and one for civil engineering, and says that on more than one occasion this has created unnecessary difficulties.

Emphasis is given to the fact that craftsmen have barely any say or influence in the civil engineering industry (in which many of them are employed) and the point is made that the application "of a little common sense and understanding would have averted a position in which one agreement was used against another." Feeling is so strong on this issue among the union leaders on the Surrey side of the Thames that I imagine it will be many a long day before there is a repetition of the "separatist" action taken this year.

THE housebuilding industry has never been short of its personalities, and maybe the qualities of enterprise and initiative which this branch of building demands of those engaged in it have something to do with this. This thought occurred to me when I received an invitation to attend today's conference on "Homes of the Future," at which Mr. C. D. Calverley, the Leicester house-builder, will be in the chair. It is many years now since Mr. Calverley was President—for two years running I believe—of the Federation of Registered House-Builders but before that he visited America in 1949 under the auspices of the Anglo-American Productivity Council. Since then he has visited the United States on several occasions and is now the chaiman of the National House-Builders Registration Council, on whose behalf he has worked indefatigably for many years. More recently he was elected chairman of the Leicester Temperance Building Society, so that when he speaks—and he is one of the most skilled orators in the industry today—he does so with considerable experience and knowledge behind him. He has served on most of the important Government committees concerned with house-building and I am looking forward to watching his performance today. Of one thing I am certain, the title of the conference is near to his heart, for there can be few house-builders who have devoted so much time and energy to the improvement of the design, layout, construction and equipment of houses for private sale. For the most part, I would say that we in this country still have a good bit to learn in these matters, but Mr. Calverley is a good man to give the lead.

AS many building contractors are still turning over in their minds the question of whether it is a worthwhile idea to call in the work study experts I was interested in a case history recently related by Mr. C. J. Turner, the work study co-ordinator of Holland & Hannen and Cubitts, Ltd., at a conference for builders at Ewell Technical College. He described how a 51 per cent. increase in output on a concrete-laying job and a cost reduction from 2s. 7d. to 1s. 8d. a yard laid were achieved as the result of applying work study technique.

It appears that investigation on a contract running behind schedule traced the trouble to a hopper and a concrete mixer. The mixer operator was having to exert 75lb. pressure which affected his output. The mixer was constructed "according to the book" but the makers suggested that a valve should be inverted and this reduced the required pressure from 75lb. to 25lb. The hopper was modified to permit a more rapid flow of materials and the machines were then re-sited. Mr. Turner commented: "Work conditions were made easier, the labour and materials produced what was planned and the bonus was increased."

I know Mr. Turner will forgive me if I say that his experience on this contract has counterparts on hundreds of other contracts in other parts of the country where the main contractor concerned has made a positive attempt to get to grips with this work study business. Unfortunately too many firms have yet to appreciate what work study can do to raise efficiency. And there are still too many which do but just will not spend a few hundred pounds to get the advice and guidance of the expert. If, over the next five to ten years—and it may be considerably less in some cases—these firms lose their strength and go out of business it will be entirely their own fault. This is an age of new methods and work study is one of them.

When I rang Mr. C. A. Francis, of the building industry's advisory service, he told me that it would be impossible to measure the amount of money his organisation had saved for builders over the past four years or so. It ran into millions. But for the firms hesitating on the brink I gathered a piece of information which they may like to ponder. It is that the improvements which a work study expert can recommend effect savings for the firm which exceed the cost of the advice within three months—and the firm goes on making the savings long after the expert has departed.

ANOTHER firm which is not afraid to try new methods is John Laing and Son. I note this week that an aviation company have delivered to them an Italian eight-seater Piaggio P.166 executive aircraft. This will be based at Luton airport and will be used for flying the company's executives to its various sites. The cost of the aircraft—and this is something which should be noted by those firms afraid to invest in the future—is £48,500. This includes full airways radio and navigational equipment.

One of the interesting things about this new venture is that the aircraft has been delivered to Laings by McAlpine Aviation which already operates a similar aircraft for the directors of Sir Robert McAlpine and Sons.

NEARLY 500 members of the Institute of Builders and the Institute of Arbitrators filled the Henry Jarvis Hall of the R.I.B.A. the other evening to hear a practice arbitration organised by the two Institutes. Some 200 applications for tickets had to be turned down. The arbitrator was Mr. J. R. W. Alexander, C.B.E., who before commencing the hearing outlined the procedure of arbitration. The case, which was prepared under the direction of Mr. W. Tompkins, F.I.O.B., concerned a dispute in which the claimant was the owner of a house which was converted under a R.I.B.A. Without Quantities Form of Contract for use as club premises. During a festive occasion the new floor collapsed and the claimant was primarily responsible for injuries to a club member and in turn claimed damages from the contractor. It was obvious that the participants in the practice arbitration had given a considerable amount of their time to preparing the case and I believe they met for "rehearsal" on four occasions. Their efforts, both serious and otherwise, were certainly appreciated by the large audience.

Men and Movements

MR. W. MUIR ROBB, managing director of J. I. Case Co., Ltd., left London Airport recently for Athens. Mr. Robb's responsibilities also include the management of the sales organisation of J. I. Case International throughout Europe, the Middle East and the Africas—it is in this capacity that this trip is being undertaken. The company have also announced the appointment of **Mr. F. C. Cambridge** as area representative for the counties of Wiltshire, Gloucestershire, Worcestershire, Warwickshire, Staffordshire and Somerset. Mr. Cambridge was formerly representative for David Brown Tractors in the south-west.

Mr. Eric Vigor, the managing director of Amalgamated Asphalte Companies, Ltd., has been appointed chairman of the Asphalt Roads Association, Ltd., in succession to **Mr. R. U. Law.**

Mr. Gordon Liley has been appointed to the board of British Lead Mills, Ltd., a member of the Firth Cleveland group. Mr. Liley was formerly an executive director of the company.

The chairman of Wrights' Ropes, Ltd., **Mr. G. J. W. Turner** has joined the board of the Lancashire Steel Corporation, Ltd. Mr. Turner joined Wrights' Ropes in 1934, was managing director from 1950-57, and chairman from then on. He is also chairman of The Rollason Wire Co., Ltd., and a director of Wellington Tube Holdings, Ltd., and of Barclays Bank, Ltd.

G. J. W. TURNER

Mr. R. S. H. Shepard, M.C., T.D., F.C.A., and **Mr. L. B. Devins** have been appointed joint managing directors of The Sheffield Wire Rope Co., Ltd. a member of the Firth Cleveland Group. Mr. Shepard was formerly a director of the company and Mr. Devins an executive director and general manager.

The new manager of the outside services department at the Witton Works of the General Electric Co., Ltd., is **Mr. J. K. Cotterill.** This is a new department formed to co-ordinate erection, commissioning and post-commissioning service of electrical plant.

Mr. J. Maurice Laing, managing director of John Laing and Son (Holdings), Ltd., and chairman of the Federation of Civil Engineering Contractors, has been appointed a vice-president of the British Employers' Confederation.

The managing director of Wailes Dove Bitumastic, Ltd., **Mr. Thomas Macdonald,** has been appointed chairman of the company. **Mr. Sidney C. Gardner** has been elected to the board.

Col. D. W. Cleaver, who has been joint managing director of Amalgamated Roadstone Corporation, Ltd., since 1946, and chairman of Amalgamated Limestone Corporation, Ltd., since its formation in 1950, has resigned from both boards for health reasons.

The Minister of Transport has appointed **Mr. D. R. Serpell,** at present an Under-Secretary in the Treasury, to be a Deputy Secretary in the Ministry to deal, in particular, with railway and road transport matters.

Industrial Fan and Heater Co., Ltd., have appointed **Mr. I. B. Cooke** a director and general manager of the company. Mr. Cooke was with the Brush group of companies at Loughbrough for 20 years, eventually becoming turbine production manager. After four years as works manager with Fielding and Platt, he was appointed a director and general manager of the Hopkinson Electric Co. at Cardiff and more recently held a similar appointment with Thomas Green and Sons, Ltd., of Leeds.

I. B. COOKE

Mr. Leslie Blease, A.R.I.B.A., A.R.I.C.S., has been elected to the board of the Co-operative Permanent Building Society, filling the vacancy caused by the death of **Mr. Harry L. Score.** Mr. Blease relinquishes his position as the Society's chief architect and will enter into private practice.

Mr. L. P. O'Sullivan has been appointed chief estimator of Raymond International (U.K.), Ltd., Wingate House, Shaftesbury Avenue, London, W.1.

Following the death of **Mr. J. T. Mackley,** chairman and managing director of J. T. Mackley and Co., Ltd., the company have announced the appointment of **Mr. F. R. Mackley,** A.M.I.C.E., to the board. **Mr. J. R. Mackley** becomes chairman and managing director.

Mr. W. N. Collins, assistant managing director of F. Perkins, Ltd., has been elected chairman of the Society of Motor Manufacturers and Traders' marine section in succession to **Lt.-Cmdr. J. W. Thornycroft,** C.B.E.

Road Rollers, Ltd., have announced that **Mr. J. C. Roberts** has been appointed manager of their St. Helens depot and **Mr. E. B. Chandler** has been appointed manager of their Leeds depot. Both depots were previously managed by **Mr. W. H. Haigh.**

Mr. Brian Jubb, B.Sc.(Eng.) Hons. Lond., A.M.I.Mech.E., A.M.I.E.E., has been appointed sales manager, Guiseley A. C. Motors, in the industrial motors and lighting division of Crompton Parkinson, Ltd. He joined the company in 1931 and has been, in succession, sales manager, instruments, and sales manager, fractional h.p. motors. **Mr. C. E. Hucker** has become sales manager, fractional h.p. motors. He has been manager, for plant products, of the company's Cardiff branch since 1958, having joined Crompton Parkinson in 1948.

B. JUBB C. E. HUCKER

Quasi-Arc, Ltd., have announced that **Mr. S. A. Harris,** formerly commercial manager at their Gateshead factory, has now been appointed supplies manager to the company. Mr. Harris will be based at the head office at Bilston from where he will control and co-ordinate the purchasing for both Bilston and Gateshead factories. The company have also announced the promotion of **Mr. C. C. Hurd** to the position of buyer, Bilston, and **Mr. W. S. McGillivray** becomes buyer, Gateshead.

Mr. William Gerard Bryce, B.Sc.(Eng.), formerly industrial consultant to the National Union of Manufacturers Advisory Service, has been appointed general manager of Heyes and Co., Ltd., Wigan.

The appointment of directors of Laing Lex, Ltd., has been announced, as follows: **Mr. E. C. Uren,** chairman; **Mr. F. E. Audus,** executive; **Mr. N. N. Chinn; Mr. R. Chinn; Mr. J. D. Chittleburgh; Mr. J. M. Robson;** and **Mr. D. W. Turner.** The company was formed recently by John Laing and Son (Holdings), Ltd., and Lex Garages, Ltd., for the purpose of sponsoring multi-storey and underground car-parking facilities.

Scottish Timber Merchants and Sawmillers Association have re-elected **Mr. W. J. Breckenridge** as president and **Mr. George Walker** as vice-president.

A director and general manager of Jeltek, Ltd., **Mr. M. Soffa,** A.S.M.A., will visit Canada and the U.S.A. at the end of March. He will be attending the Toronto Safety Congress where Bell Electrical Company, Jelteks' leading distributor in Canada, are exhibiting their range of industrial protective clothing.

M. SOFFA

Mr. G. W. M. O'Shea has been appointed to the board of Western Counties Brick Co., Ltd., with effect from April 1.

Among passengers returning to this country recently on the Queen Mary was **Mr. John H. Hanson,** chairman and managing director of Taylor Woodrow (Overseas), Ltd.

As a result of the offer by Albright and Wilson, Ltd., for the capital of A. Boake, Roberts and Co. (Holding), Ltd., having become unconditional, **Mr. F. G. Pentecost,** chairman of A. Boake, Roberts and Co. (Holding), Ltd., has been appointed a director of Albright and Wilson, Ltd.

Mr. C. Perry has been appointed a street lighting engineer with the south-east region of Philips Electrical, Ltd. He joins the company from A.E.I. Lamp and Lighting Co., Ltd.

WESTMINSTER STONECARVER'S AWARD

Mr. Henry Francis Wadley, who was chief stonecarver at the Houses of Parliament for more than 30 years, was presented last week by the Minister of Works with the British Empire Medal which he was awarded in the New Year Honours List.

Now aged 71, Mr. Wadley, who was engaged on the initial contract for the renovation of the Palace of Westminster stonework, joined the direct labour staff of the Office of Works in 1929. As foreman carver for the Department, he supervised or personally executed the treatment of over 100,000 carvings of the Palace of Westminster.

PROGRESS ON LONDON TRANSPORT'S £9M. METROPOLITAN PROJECT

Large-scale Bridge Works and Alterations

WORK is now well in hand on London Transport's £9m. scheme for the electrification of the Metropolitan Line from Rickmansworth to Amersham and Chesham, the four-tracking of the line from Harrow-on-the-Hill northwards to Watford South Junction, and the provision of new rolling stock.

Thirteen bridges are being rebuilt and reconstructed to take additional tracks and to allow the width of the roads above or below the railway to be increased. Large-scale alterations are being made to Amersham and Northwood stations, signalling is being modernised and new electrical sub-stations are under construction. Deliveries of new rolling stock for the line will begin early next year.

At Amersham, which will be the new terminus of the Metropolitan Line when all the works are finished in 1962, the steelwork of the northern half of the bridge over Rectory Road is now being completed. Station Road Bridge nearby, where a new double-track span was rolled into position one weekend last month, now has a second, single-track span alongside, which has been built in the last few weeks. The two bridges will enable the new reversing tracks for London Transport's electric trains to be laid down between the Up and Down running lines.

At Amersham station a new signal box is nearly complete and will be brought into operation, with new colour-light signalling, this month. As soon as the new signal cabin is opened, the old one will be demolished so that the existing Down platform can be converted into an island platform for London Transport trains and British Railways Down main line trains. The converted platform will be completed and will come into use in May.

Conductor rails and traction current cables are being laid from Rickmansworth to Amersham and on the single-line branch from Chalfont and Latimer to Chesham, and this autumn—pending the delivery of the new trains—some provisional electric services will begin running with existing rolling stock north of Rickmansworth.

At Moor Park work is going ahead on the foundations for the new island platform to serve the fast trains. It will be connected by a subway to a new platform to be constructed for use by local services.

Good progress is being made on the new station at Northwood which will be more conveniently sited with its entrance nearer to Green Lane. A concrete retaining wall is now being built alongside the station approach road close to the Green Lane bridge. Next month construction will start on a steel and concrete raft between this wall and columns alongside the present tracks, to carry the new ticket hall This will be complete by the end of the year and the old station will then be demolished so that the new pair of tracks for the local services can be built through the site and beneath the new ticket hall.

Key Job

The Rickmansworth Road railway bridge—midway between Northwood and Northwood Hills station—is a key job in the scheme. The concrete abutments for an additional span to carry the new fast tracks are being completed and work on the girders will start in a few weeks' time. Trains will be diverted over the new span of this bridge by the end of the year and then the second new span for the local services will be built alongside the old bridge. Finally, the old brick bridge will be demolished and the roadway widened.

Rebuilding the bridge over Marsh Road (MR.50) close to Pinner Station is one of the most complex tasks of the scheme. The River Pinn, which flows under the railway, is now being diverted so that the abutments of the new bridge can be built farther apart—to widen the highway—and lengthened to carry four tracks.

Supporting walls, which will ultimately take the additional double-track span of the new bridge, are now being built on the south side of the line. As soon as they are built, a replacement bridge—longer than the present bridge—will be built across them. Then, one weekend, the present structure will be taken away and the new span rolled in to take its place. This bridge will accommodate the local tracks and a second similar span will then be built on the south side of the present line for the fast tracks. The present bridge will be rolled on to timber trestles to the north of the line during the weekend changeover and it will be re-used farther along the line at Chestnut Avenue, Northwood.

At Marsh Road bridge (MR.48) over the railway, half a mile closer to London, the second half of the bridge is going ahead and will be open to road traffic, along with the existing portion, in four or five months' time. The new half of the bridge will replace the brick arch which was recently demolished.

Work is also proceeding on the foundations for a new 80ft. span girder bridge over Station Road, North Harrow, to take the additional tracks on the south side of the present bridge. Excavation for the formation for the new tracks alongside the existing lines has been held up recently by wet weather, but it is expected that the lost time will be made up as soon as the condition of the ground improves.

Piling being driven for diversion of the River Pinn at the bridge carrying the line over Marsh Road near Pinner Station (Bridge MR.50)

MUNICIPALS' NORTHERN DISTRICTS SUMMER SCHOOL

The Institution of Municipal Engineers' Northern Districts Summer School, which will be held this year at the University of Sheffield, from July 20 to 24, will deal with some of the problems met by the engineer in every-day municipal life rather than deal with the subjects from the more theoretical standpoint as in preparation for examinations.

The programme arranged is as follows: "Factors in the Choice, Design and Construction of Short Span Bridges," by J. A. Carter, B.Eng., A.M.I.C.E., A.M.I.Mun.E.; "Some Aspects of Traffic Engineering," by J. A. Hillier, of the Road Research Laboratory; "Modern Building and its Control," by F. D. Entwistle, A.R.I.C.S., A.M.I.Struct.E., A.M.I.Mun.E., A.I.S.; "Sewage Treatment Plants with Special Reference to Sheffield," by S. R. Goodrich, M.Inst.S.P., and L. F. Phillips, B.Sc., A.M.I.C.E., M.Inst.S.P.; "Improving Environment: A Study in Beauty, Pleasantness and Purpose," by C. R. Warman, B.Sc., M.I.C.E., M.I.Mun.E., A.M.P.T.I.; "The Practical Application of Planning in the Redevelopment of a Built-up Central Area," by P. A. Allison, M.Eng., A.M.I.C.E.; "Public—and less public—Relations," by J. Bebbington, city librarian and information officer, Sheffield.

There will be visits to sewage works and to Sheffield Corporation water supply works and reservoir.

Talking of Safety

by "DRAGEE"

THE mobile crane is the site's equivalent of the efficient maid-of-all-work in its adaptability and desire to please. There the resemblance ends, for while the modern "mobile" is a glutton for work—and consequently subject to much abuse—it is probably the most accident-prone of all the heavy-duty lifting appliances. It was, therefore, with a mixture of interest and apprehension that I went to have a look at a spanking brand new machine that had just arrived at an equally new job in East Anglia. Bill Manning, our General Foreman, showed me the crane with evident satisfaction.

"She's a real beauty, this one," he said, patting one of the mudguards affectionately. "Goes like a dream. Easy to drive, visibility good, accurate lifting, the lot."

A medium-light machine, she was rated to lift 2 tons at 13ft. radius, or 17ft. radius working with outriggers. The driver got down from his cab and came over to where we were standing. We lit cigarettes and looked at our new acquisition in silence for a moment, then Bill said:

"Sidney here is a bit worried about his official position as a driver. He's got on to some idea about drivers being qualified or tested or something. I've told him as far as I know there's nothing to it, but he's afraid he's going to fall foul of the law."

Sidney grinned. "It's only that I like to be careful. What with all these Factories Acts you've got to know where you stand."

"What's your background, as a crane driver?" I asked.

"Nearly twenty years of it," answered Sidney with pride. "Steam derricks, electric derricks, petrol mobile cranes, diesel mobile, diesel-electric mobile, excavators. . . ."

"Right, that's fine," I cut in hurriedly. "You've certainly had experience. Now as the law stands at present you don't need to take any kind of official test to be a driver on private ground. It's the employer's responsibility to make sure that the driver really is competent. Yes, I know what you're going to say, but unfotunately there's no strict definition of the word 'competent' so you must just apply the usual commonsense meaning. If you care to accept it as a condition of 'competence' that competent drivers don't have accidents, then we shall be taking a stride in the right direction. On building jobs there is a definite requirement that lifting appliances may only be operated by persons who are trained and competent, excluding all persons under eighteen years of age. Actually your name and particulars will be in our own register of authorised drivers so you have no need to worry on that score! In any case, our foremen are kept well informed about legal requirements which affect their work. Now let's have a look over the machine."

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

The first good points I noticed were the extra big tyres. Even if it had a puncture this machine would remain stable—without the use of wheel plates, which in my view are always a doubtful safety feature. The crane was fitted with a Vickers-Nash automatic indicator and I asked Sidney to climb up and demonstrate it.

"You can see how the control levers are arranged," said Bill. "Everything handy, and each one clearly marked. Nobody could go wrong with these."

"Are you getting a commission on this, Bill?" I asked.

"No ruddy fear I'm not. It's just that we've been messing about with too many grannies all these years. After all, it'll help to make your job easier."

"Agreed. Now, let's see—what load have you got there?"

"This is the 40cwt. test weight and we're lifting at 12ft. radius."

Sidney was picking up rather quickly and I carefully watched the underside of the rear tyres. They sat firmly on the ground. The crane stopped, then jibbed out slowly until the load was just held. The warning light came on, then at a fraction over 13ft. radius the alarm bell sounded. The driver grounded the load, edged forward, shortened the radius to 12ft. and lifted again. Silence! I pressed the test button. It worked.

"I try that button regularly every morning and afternoon before starting the first lift," said Sidney.

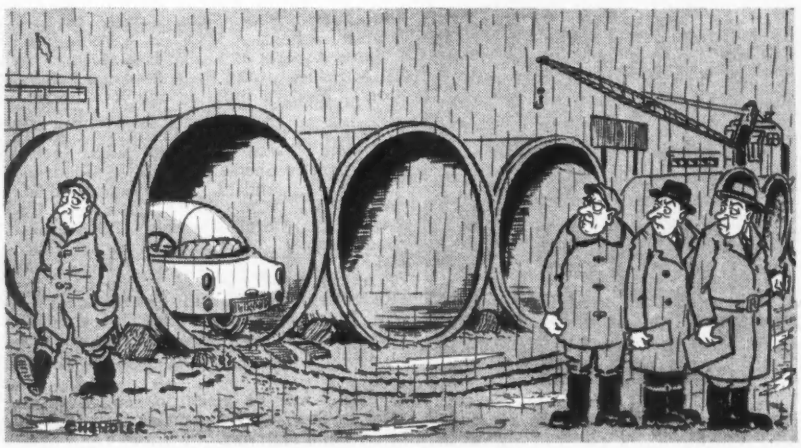
"Believe it or not, so he does," said Bill.

"That's very wise, because it's your safeguard as well as the Company's," I told him. "Even when automatic indicators aren't legally required, they should be used—and as you know that's our rule on all sites. Quite a number of experienced crane drivers have been caught by the unexpected—hooking up obstructions for instance, or the effects of suction when lifting an object from a muddy surface. It's equally important to make sure that your automatic indicator is kept in good working order, because, in the course of time, you tend to take it for granted."

From inside the cabin—which was comfortable and roomy—I pointed out certain other safety features I particularly liked with this crane: the "dead man's handle" controls, the power-engaged raising and lowering motions, and the highly efficient brake on the hoist drum.

"This is a first-class job," I said, "and another example of safety and efficiency going hand-in-hand."

Bill looked at me out of the corner of his eye. "Who's on commission, now?" he growled.



NATIONAL SAFETY IDEAS CONTEST

A national contest seeking ideas to decrease accidents in industry, on the roads, and in the home, is to take place in April and May, sponsored by 35 British firms.

During the month of the contest nearly 100,000 posters will be displayed throughout the country in offices, public halls, and schools. Six finalists will be brought to London and will there compete for a first prize of £500. The second prize is £250, third prize is £150, and there are three consolation prizes of £50. Under 16-year-olds will be eligible for a special prize of £50 and five consolation prizes of £10.

Among the firms sponsoring the project are Associated Portland Cement Manufacturers, Ltd.; C.A.S. Industrial Developments, Ltd.; Constructors John Brown, Ltd.; Holland & Hannen and Cubitts, Ltd.; George Wimpey and Co., Ltd.; and Cape Asbestos Co., Ltd.

SCOTTISH HYDRO-ELECTRIC CONSTRUCTION LAST YEAR

The annual report of the North of Scotland Hydro-Electric Board shows that last year the Board increased the capacity of their hydro-electric stations to 866,472-kW, generated 2,196 million units of electricity and connected 10,043 new consumers to the mains.

The unusally dry summer enabled a good start to be made with many new contracts in Inverness-shire and Argyllshire and helped to ensure that the new stations programmed for commissioning during the year were ready on time. No new scheme was promoted in 1959 but of those under survey, Nevis and Laidon have nearly reached that stage.

Civil engineering contracts mainly for the Strathfarrar and Awe projects with a total value of nearly £11½m., were placed during the year. A contract for the construction of the barrage on the River Awe below the loch will be placed early in 1960 and later in the year tenders will be invited for the principal works (mainly underground) of the Cruachan pumped storage scheme.

The total of tunnels driven since 1944 has now reached 159 miles with a further 14 miles in hand. The contractors for the Strathfarrar works have employed for the first time in this country a new method of shaft excavation which avoids the use of any timbering.

MANCHESTER BUILDING CENTRE

Work is now being completed at 113-115 Portland Street, Manchester, 1, where three floors are being completely modernised to form the new Building Centre for the North of England. In preparation for the opening, the offices of the Centre have moved into these premises from their temporary office in the College of Science and Technology.

The Manchester Centre, started by its director, Mr. John P. Griffiths, has the support of The Building Centre, London, to which it is affiliated.

Trade Section

ALLIS-CHALMERS INTRODUCE NEW HD.6G TRACTOR SHOVEL

A NEW 1½ cu. yd. HD.6G tractor shovel is now in production at the Springfield Works of the Allis-Chalmers Manufacturing Company, Illinois, U.S.A. It is powered by a 79.5-h.p. four-cycle diesel engine, producing a 16,670lb. drawbar pull. Four forward speeds from 1.5 to 5.5 m.p.h., and two reverse speeds of 2.0 and 4.1 m.p.h. can be selected.

Dumping height of the new unit is over 9ft., 13in. greater than the previous model and with a reach of 3ft. 9½in. at 8ft. The new curved bottom bucket tips back 40 degrees at ground level, with a 21,500lb. break-out force at the cutting edge, which is 500lb. greater than the weight of the machine itself.

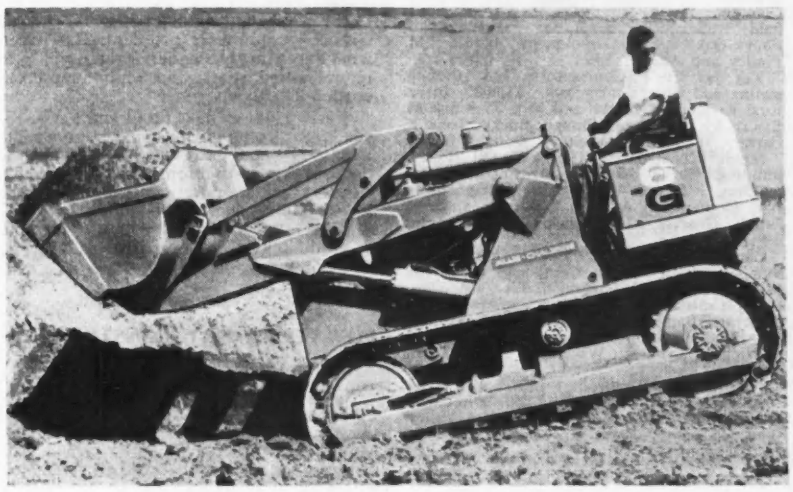
Shovel functions can be controlled with the HD.6G's hydraulic system that incorporates a specially designed, heavy-duty gear-type pump. Mounting of the pump directly to the front end of the engine crankshaft has eliminated the conventional universal joints and drive shaft.

The manufacturers state that the new machine provides outstanding operating ease and comfort. The operator sits in a foam-padded armchair style seat which is adjustable. Controls are grouped within easy and natural reach and 24-V electric push-button ensures instant starting. A decelerator pedal and a built-in bucket level indicator add to the ease of operating this machine. Another feature is all-round visibility.

Front-mounted matched attachments include a rock bucket, rock fork, light materials bucket, lift tongs and lift forks, crane hook and straight and angling type dozers.

Standard equipment includes: 1½ cu. yd. general-purpose bucket; chrome plated rods, lift and dump cylinders; heavy-duty hinged wrap-around radiator guard; 13in. semi-grouser shoes; heavy-duty front idlers; heavy-duty positive seal truck wheels, front idlers and support rollers; full width crankcase guard; heavy-duty track guiding truck wheel guards; pusher type fan; muffler; 24-V electric starting and lighting equipment; fuel and lubrication oil pressure, temperature and ammeter gauges; long track rigid truck frames.

Further details can be obtained from Mackay Industrial Equipment, Ltd., Central Way, Feltham, Middlesex.



The new 1½ cu. yd. tractor shovel with curved bottom bucket

TRADE NEWS IN BRIEF

United Dominions Trust are opening a new branch office at 37 Beresford Terrace, Ayr. Tel: Ayr 67275/6.

Maintenance of wood floors is dealt with in an information bulletin (C/IB/3) published by the **Timber Development Association,** 21 College Hill, London, E.C.4, price 3s. 6d.

The Air Power Division of **Joy-Sullivan, Ltd.,** announce the appointment of the following new distributors: **Fewsters, Ltd.,** Bridge Street, Blaydon, for Northumberland and Co. Durham; and **Wheatley and Whiteley,** Kirkstall Road, Leeds, 3, for Yorkshire.

"Fabrication Manual for Connectored Assemblies" and "Production Standards for Structural Glued Laminated Timber" are the titles of two new guides published by the **Timber Development Association,** 21 College Hill, London, E.C.4. Each is priced at 3s. 6d.

John Laing and Son, Ltd., have transferred their regional headquarters at Arlington Villas, Clifton, to new offices at 39-43 College Green, Bristol.

Dale Electric (Yorkshire), Ltd., Filey, have effected an all-round reduction in the prices of their petrol and diesel electric generating equipment. Their range has been extended from 1.25-kVA to include sets with outputs of 380-kVA.

Goodwin Barsby and Co., Ltd., Leicester, have contracted to supply The Limmer and Trinidad Lake Asphalt Co., Ltd., with two more large 60/90 semi-mobile asphalt plants.

Corrosion Technical Services, Ltd., in association with **Soil Mechanics, Ltd.,** have acquired the fixed assets and trade mark of **Corrosion Proof Products, Ltd.**

United Dominions Trust's regional and branch office in Newcastle has moved to new premises at 12 Mosley Street, Newcastle upon Tyne, 1.

Following the recent acquisition of the share capital of **Arthur Waterman, Ltd.,** Leeds, by **Mitchell Construction Co., Ltd.,** the name of the company has now been changed to the **Mitchell Construction Co. (Leeds), Ltd.**

Tarmac Roadstone, Ltd., have recently undertaken responsibility for all sales of the coated roadstone materials produced at Haughmond Quarry, near Shrewsbury, by **Dunning and Son, Ltd.**

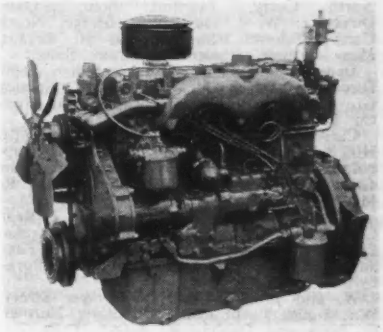
Bambergers, Ltd., have acquired the share capital of **Richard H. Keeping, Ltd.,** timber importers and merchants.

The Astley Industrial Trust, Ltd., have opened a branch office at 30/32 Waylen Street, Reading, under the management of Mr. H. F. Woodroffe. Tel.: Reading 50845/6.

PERKINS' NEW SIX 305 DIESEL

A NEW five-litre, six-cylinder industrial diesel engine suitable for different applications, including tractor shovels, fork lift trucks and mobile cranes, is announced by Perkins Engines, Ltd., of Peterborough.

Named the Six 305(I), it is rated up to 87 b.h.p. at 2,400 r.p.m. for intermittent use and is fitted with chrome-plated thin wall liners, which it is claimed, greatly reduce bore wear when the engine is used under dusty, adverse conditions.



Six 305 engine

Fitted with a compact flange-mounted distributor-type fuel pump, the engine can be equipped with either a hydraulic governor for type of industrial equipment requiring speeds in excess of 2,000 r.p.m., or a mechanical governor for applications such as generating and pumping sets, needing close governing.

The Six 305 will be available with a wide selection of flywheels and flywheel housings to suit various applications, and also in stage-by-stage form up to a complete power pack. It is lubricated from a rotor type pump driven through a vertical spindle by skew gears from the auxiliary drive. An oil strainer is provided at the pump inlet and oil is fed through a full flow filter. The oil supply is metered to feed the camshaft and valve rocker gear and maximum oil pressure is controlled by a relief valve in the crankcase.

ROTINOFF GROUP RECONSTRUCTION

Following the complete reconstruction of the companies in the Rotinoff Group, Rotinoff Construction, Ltd., and George Rotinoff, Ltd., have been amalgamated and are now known as Lomount Construction, Ltd.

Associate companies, Rotinoff Motors, Ltd., and Rotinoff Engineering, Ltd., have also been amalgamated and are now known as Lomount Vehicles and Engineering, Ltd.

New offices have been acquired and the address of the companies is Sackville House, 40 Piccadilly, London, W.1. Tel: Regent 2112/6.

SCOTTISH PLANT OWNERS ASSOCIATION SPONSOR SALE

The Scottish Plant Owners Association are to sponsor a sale of contractors' plant. The sale will be conducted by Shirlaw Allan and Co., auctioneers, Hamilton, and will take place at Contractors' Plant Depot, Carmyle Avenue, London Road, Glasgow, on April 20 and 21.

It is estimated that the original cost of the plant involved, which has been vetted by a special sub-committee of the Association, is in the region of £500,000.

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

Jacton Construction Co., Ltd., Bank Chambers, 214 Bishopsgate, E.C.2. £1,000. Directors: Samuel Weston, 10 Hilltop N.W.11; David D. Jacobs, 25 Edgeworth Avenue, Hendon, N.W.4; Kate Weston and Rita Jacobs.

Cresco Concrete Co., Ltd., New Bridge, North Curry, Taunton, Som. £5,000. Directors: W. J. Day, New Bridge, North Curry, Taunton, Som.; Cecil R. Bryant, Moss Cottage, Henlade, Taunton, Som.

Derek Barnes (Builders), Ltd. £600. Directors: Derek V. Barnes, 13 Stanley Grove, Redcar; John Horncastle, 201 Redcar Lane, Redcar.

Carroll and Conlon, Ltd., 8 Hale Lane, Mill Hill, N.W.7, builders. £500. Directors to be appointed by subscribers. Subscribers: Matthew Gibb (solicitor) and Miss Charlotte R. Moore, 14 Grays Inn Square, W.C.1.

Page Sectional Buildings, Ltd., Rear Coral Street, Saltburn-by-the-Sea, Yorks. £1,000. Permanent directors: Ronald Page and Ann Page, 20 The Crescent, Saltburn-by-the-Sea.

W. and J. Barrs Ltd., 30 Thayer Street, W.1, builders. £1,000. Directors: Norman C. Barrs and Daphne R. Barrs, 35 Bartholomew Road, N.W.5; Wm. O. Barrs, Wyldin Swalecliffe Road, Tankerton, Kent.

W. D. Welch (Camborne), Ltd., 11 Market Strand, Falmouth, public work, sewage and drainage contractors. £1,000. Directors: Wm. D. Welch and Mrs. Inez Welch, 5 Kelley Road, Falmouth.

Lavelle's Plant Hire (London), Ltd., Leppoc Road, S.W.4. £1,000. Directors: Patrick Lavelle and Mrs. Bridget Lavelle, 22 Leppoc Road, S.W.4.

Falconwood Construction Co., Ltd., Fourways, Brecon Close, Minster, Sheppey, Kent, builders. £2,000. Directors: Ronald T. Reeves, 24 Bromley Road, Catford, S.E.6; Edward B. Pagden, 47 Balloch Road, Catford, S.E.6; Ronald R. R. Kebble.

Orchard and Peer, Ltd., builders. £60,000. Directors: Geoffrey I. Orchard, Thrupp House, Stroud, Glos.; William E. Orchard, Eight Gables, Burleigh, Brimscombe, Glos.

P. E. Selby, Ltd., demolition contractors. £500. Directors: Percy E. Selby and Mrs. Ivy J. Selby, 35 Bostall Hill, Abbey Wood, S.E.2.

Alumastas, Ltd., 3a The Terrace, Wokingham, Berks., aluminium lighting columns and electrical street lighting. £1,000. Directors: Ernest Arnthal, 12 Powys Court, Bowes Road, London, N.12; Detlef J. Eiberg, 2 Crown Street, Harrow-on-the-Hill; Alan W. M. Faulkner, Moorhouse Flat, Moorhouse, Westerham, Kent.

F. A. Deason (Builders), Ltd. £3,000. Directors: Fdk. A. Deason and Mrs. O. M. Deason, Deepdene, Mount Avenue, Hutton, Brentwood, Essex.

F. J. Taylor (Builders), Ltd., 15 Brandon Road, Southsea. £1,000. Directors: Fdk. J. Taylor and Mrs. D. I. Taylor, 15 Brandon Road, Southsea.

Highworth Building Co., Ltd., 33 Swindon Street, Highworth, Wilts. £10,000. Directors: Wm. J. Latham and Mrs. Irene L. Latham, Elstead, Botany, Highworth, Wilts.

H. Painter and Sons, Ltd., 6 Clarence Road, Windsor, Berks., builders. £1,000. Directors: Herbert Painter, 3 Gordon Road, Windsor; Philip H. H. Painter, Rose Cottage, Marsh Lane, Taplow, Bucks.; Raymond J. Painter, 14 The Crescent, Slough.

Rotamix Concrete (Transport), Ltd., 64 Bath Road, Wolverhampton. £2,000. Directors: Eugene C. Evans, 11 Park Avenue, Goldthorn Park, Wolverhampton; Frank Wright, 1 Coney-Bere Gardens, Brewood, Stafford.

Sanderson-Hall Construction Co., Ltd., 62 Tudor Avenue, Worcester Park. £500. Directors: Milton Sanderson-Hall and Sonia J. Sanderson-Hall, 4 Hillcrest Gardens, Hinchley Wood, Esher.

Lockwood and McDermott (Builders), Ltd., 47 Hyde Road, Paignton, Devon. £1,000. Directors: Anthony C. Lockwood and Cornelius J. McDermott, Brock's Holt, Greenway Road, Churston Ferrers.

Builders (Derby), Ltd. £4,000. Directors: Mrs. Margaret H. Hunt, 163 Pastures Hill, Littleover, Derbys.; Harold Kyte, 24 Askerfield Avenue, Quarndon, Derbys.

Rix Contractors, Ltd., 2 Clarence Road, Four Oaks, Sutton Coldfield, builders. £10,000. Directors: Hilda W. Rix, 2 Clarence Road, Four Oaks, Sutton Coldfield; Robert S. Roberts, 16 Clarence Road, Four Oaks, Sutton Coldfield; Pamela M. Pimley and Allan J. Kent.

Kay Jay Cee's (Contractors), Ltd., roofing, slating and tiling contractors. £1,000. Directors: Kenneth J. Clarke and Mrs. Florence M. Evans, 35 Mill Street, Slough, Bucks.; John E. Carter, 16 Hatton Avenue, Slough, Bucks.

Mekin Construction Co., Ltd., St. Peters Building, Bridge Street, Mansfield, Notts., builders. £5,000. Directors: Harry Mekin 14 Omberley Avenue, Skegby, Notts. Norah Greaves, 7 Cambridge Road, West Bridgford.

George F. Orton, Ltd., builders and contractors. £100. Director: George F. Orton, 58 Marlborough Road, London, E.4.

K. J. Construction, Ltd., civil engineers. £100. Directors: Pamela M. Withers, 176 Netheroyd Hill Road, Cowcliffe, Huddersfield; Archibald H. Nichols, Lyncroft, Woodhead Road, Holmfirth.

Victoria Constructions, Ltd., 47 Hyde Road, Paignton, builders. £1,000. Directors: Stanley C. Mitchell, 49 Occombe Valley Road, Paignton; Brian T. Smith, 47 Hyde Road, Paignton.

The 3,500th Euclid to be produced by the Scottish assembly line of Euclid (G.B.), Ltd., was recently delivered by Blackwood Hodge, Euclid distributors, to Shellabear, Price, Ltd. The unit, a TS-24 "twin powered" scraper, will join the contractors' other TS-24's on the Grantham By-pass project

MASSEY-FERGUSON'S RECORD 1959 SALES

ADDRESSING shareholders at the annual meeting of the Massey-Ferguson parent company in Toronto recently, the president, Mr. A. A. Thornbrough said that some increase in 1960 world-wide sales might be anticipated, and if projected sales programmes are achieved, net income after taxes for 1960 could reach approximately that of 1959. "On the whole, however, 1960 requires very careful management attention and control." 1959 net sales were a record at $475.5m. and net income was $21m.

Sales in Europe for the first quarter were approximately the same as last year. Increased sales of tractors for the export markets and the inclusion of Perkins diesel engine sales offset sales shortfalls in the United Kingdom and France.

Major expansions and rearrangement of French tractor facilities, under way for several months, was announced by Mr. Thornbrough. Fourfold expansion of the former Standard-Hotchkiss plant at Beauvais will be completed early in 1961. The new plant will be equipped to manufacture a 25-h.p. tractor of a new design concept. "The project also includes an engine plant to produce in large volume the Perkins four-99 diesel engine, not only for Massey-Ferguson tractors but also for other customers in France."

RESTYLED COMMER COB VAN

Improvements on the latest Commer Cob 7cwt. van, announced by the Rootes Group, include a 21 per cent. increase in windscreen area, slender screen pillars to reduce blind spots, and chromium-plated cowled headlamp rims.

A new front grille is fitted and a pressed-steel roof panel forms a peak above the windscreen and rear door. Also new is the four-speed synchromesh gearbox, which has a short, remote control type lever. Power is provided by the Rootes 1,390 c.c. overhead valve engine, which is capable of producing speeds in excess of 70 m.p.h. The Cob is priced at £430.

BOWATER'S DRY CONSTRUCTION CEILING PANEL

Newly introduced by the Building Boards Division of The Bowater Organisation is the Bowater dry construction ceiling panel. This has a face of bevel-edged, leather-grained, ⅛in. hardboard, laminated with PVA adhesive to a ¾in. frame which is strengthened with a single cross strut.

The panel is backed with an aluminium faced waterproof kraft paper, providing a ¾in. sealed air space to give thermal insulation. It conforms in construction to the revised standards of Model By-law 78, Standards of Domestic Insulation, and is made 2ft. square, having a nominal thickness of ⅞in. Covering capacity is two and a quarter panels per square yard of ceiling area. Each panel weighs 4lb. 13oz.

SELF-SEALING COUPLING

A quick-release self-sealing coupling for use in hydraulic feed lines of up to 3,000 p.s.i. working pressure has been added to the range of fittings made by Super Oil Seals and Gaskets, Ltd., Kings Norton, Birmingham. It is being made with either British standard or American threads and, by the use of adaptors is available in ⅜in. and ½in. sizes.

The coupling consists of two halves each using a spring-loaded poppet sealing valve and a spring-loaded thimble ring for quick attachment. When connected the halves of the coupling are sealed with a rubber sealing ring and held in position by a series of hardened steel balls working in tapered location holes.

Trade Section

STEELS ANNOUNCE ANOTHER THREE COLES CRANES

THREE new Coles mobile cranes are to be exhibited by Steels Engineering Products, Ltd., Crown Works, Sunderland, at the Mechanical Handling Exhibition. They are named the Dominant, Endurance and Ranger.

The Dominant is a wide chassis crane with a maximum lifting capacity of 12½ long tons at 10ft. radius when fitted with a 30ft. centres strut jib and with stabilising jacks extended. It will also lift nine long tons in a fully mobile condition.

It is fitted with a 50ft. strut jib comprising two basic 15ft. sections and a 20ft. extension piece. With the use of such extension pieces it is possible to lengthen a jib on the crane to a maximum of 80ft.

Equipment on the Dominant is designed to enable the use of an electro-magnet. A booster generator is fitted with automatic voltage control; magnet control gear is installed in the driver's cab and on the jib is a spring-loaded, combined cable reeling drum and tag line. No major alterations are required for magnet equipment on this diesel-electric crane, power being provided by a system integral with the main electrical system.

The Dominant

The Endurance

The Endurance is a heavy duty crane with a lifting capacity of 20 long tons at 10ft. radius with a 30ft. strut jib. Power for the crane motions is provided by a Perkins 203 diesel engine. The crane superstructure is mounted on a Coles crane-carrier chassis fabricated from rolled steel sections and plates.

The crane being exhibited is fitted with a 100ft. centres strut jib and electrically powered stabilising jacks which are operated from the driver's cab.

One of the new range of Coles mobile tower cranes, the Ranger is equipped with synchronised tandem hoisting barrels for use with a double rope grab. Although a maximum jib length of 80ft. is possible the crane to be exhibited is fitted with a 50ft. centres and a 45/36 cu. ft. capacity, double rope, coal grab.

The 20ft. high, fabricated steel tube tower is a self-erecting structure and is entirely removable when the crane is converted to a conventional strut jib crane—an operation said to take less than an hour.

LIQUID GAS-FIRED ASPHALT MIXER

A MASTIC asphalt transporter and mixer fired by liquid gas has been developed by The Phoenix Engineering Co., Ltd., Chard, Som.

Called the model MG, it has a gearbox drive to the mixer mainshaft through a shaft coupling, so that no material can find its way into the gearing as in the conventional machine with its open form of worm drive. A short belt drive from the engine, normally a Lister or Petter air cooled diesel, ensures that should the stirring gear become jammed the belt will slip, preventing any damage to the mainshaft, stirrers or gearbox.

Self aligning plummer blocks carry the stirrer mainshaft. These are fitted to the actual mixer chassis and not to the mixer end plates so taking the weight and strain of the stirrer gear off the mixer body. Provision is made for the actual expansion in length of the stirrer mainshaft which is quite considerable over the full heating period; the plummer blocks are completely divorced from the heat of the mixer and the stirrer mainshaft is carried through the mixer endplates by sturdy bearings and glands to prevent leakage.

Burners are of Barter design. The burner unit and burners, which include a lock-up control box with instruments in panel form, are in one integral unit which can be withdrawn wholly from the mixer by the removal of six bolts and the breaking of a gas union. The unit is suitable for working off four gas bottles all connected to a manifold, and as an extra an automatic change-over valve can be fitted to permit the burners to work off only two bottles at a time.

The normal control box includes a flame failure valve for safety in operation that automatically extinguishes the main burners should the pilot fail, and a press button static starter to ignite the pilot.

The mixer body is insulated with 3in. Rocksil insulation internally with 2in. externally to the end plates. It is attached to the chassis in such a manner as to permit its expansion during heating.

The mixer body is complete with 10in x 5in. outlet valve with handle, and chute to carry discharge clear of gas burners, the whole machine being carried on a straight type chassis with pneumatic tyres and steel roller bearing hubs. The mixer stirrer shaft is of heavy square section mild steel. Model MG is available in capacities of 2 and 4 tons.

WHITLOCK INCREASE SHARE CAPITAL

Whitlock Bros., Ltd., Great Yeldham, Essex, have increased their Share Capital by the addition of 1,000,000 (5s.) Ordinary Shares.

The company, which is working to capacity on the manufacture of earthmoving equipment and agricultural machinery, has recently acquired adjoining land, increasing the Yeldham factory area to 30 acres.

Their first building expansion programme, covering 100,000 sq. ft., is nearing completion and plans for the second phase have been submitted for planning approval.

STORAGE SYSTEMS EXHIBITION

A comprehensive exhibition of the company's products will be held at the new Paddington Green works of James H. Randall and Son, Ltd., London, during the week May 2-6.

On view for the first time will be Microstore, a free-standing self-contained, lockable and dust-proof storage installation with easy-moving frames. Another new product is Ranplan, a steel tray unit incorporating specially designed shallow trays with cut-away corners, to allow speedy handling of individual drawings, plans and other types of sheeting stored in the flat.

CARTRIDGE OPERATED FIXING TOOL

F. H. Bourner (Fixings), Ltd., Manor Royal, Crawley, Sussex, have introduced a new cartridge operated fixing tool called the Spitmatic, which they claim will give 120 fixings an hour over an extending period.

It will fire power pins of ¼in. and $\frac{5}{16}$in. diameter through the same barrel, and incorporates quick loading and automatic ejection methods. Safety features incorporate three mechanical processes by which the tool is prevented from firing until the operator is ready. The breech mechanism is completely enclosed.

BRICK PACKAGING FILM

A film entitled "Brick Packaging with Seal-Less Strapping" was shown recently by Gerrard Industries, Ltd., Great West Road, Brentford, Middx., to representatives of interested organisations.

In colour, the film describes the passage of bricks from the brickmakers, packaged with tensional steel strapping into batches of 50, to the site and the scaffold. The operation of applying the steel strapping with a simple hand machine is also shown in detail, and emphasis is given to the economies made in loading and unloading manhours.

Current Constructional Activities

PROJECTS • CONTRACTS • AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING
(See also Housing Schemes)

Aberdeenshire.—C.C. have approved in principle plans for a new police headquarters at Bucksburn, for Scottish North-Eastern Counties Police Board. Estimated cost £70,000.

Armagh.—City Council have approved plans for a covered swimming baths at Folley Lane. Estimated cost £64,000.

Ashby Woulds, Leics.—U.D.C. to invite tenders for modernisation of 36 pre-war houses at the Crescent, Moira and Albert Village.

Barnard Castle, Dur.—Tadcaster Tower Breweries, Ltd., Tadcaster are to convert the village school at Winston into a public house. Scheme generally approved by the Licensing Justices. The architect is K. V. Shaw, High Coniscliffe, Darlington.

Barnsley, Yorks.—Provisional licence granted for erection of new public house at Ballfield Lane, Kexborough, Darton, for Tennant Brothers, Ltd. M. W. Ofield, staff architect.

Bathgate, East Lothian.—H. W. Weedon and Partners, Calthorpe Road, Edgbaston, Birmingham, 15, are the architects for a new factory, for British Motor Corporation, Ltd., Longbrige, Birmingham. L. C. Wakeman and Partners, quantity surveyors, 11 Highfield Road, Birmingham, 16. Building and installation of plant estimated at £9m.

Bath, Som.—F. W. Beresford-Smith, 2 Princes Buildings, George Street, Bath are the architects for the erection of new club premises at New King Street, for tthe Percy Boys' Club, Monmouth Place. Estimated cost £20,000.

Berkshire.—Standing Joint Committee to invite tenders from selected contractors for alterations to Maidenhead police station.

Beverley, Yorks.—B.C. recommended to approve scheme and invite tenders for additional cycle and refuse stores in connection with Wilbert Lane development scheme.

Biggleswade, Beds.—U.D.C. have approved in principle, sketch plans for the provision of a swimming pool, car park and football pitch at Fairfield.

Bishop's Stortford, Herts.—U.D.C. to prepare draft layout plans for the erection of a civic centre, swimming bath and fire station on the north of the Causeway.

Blackburn, Lancs.—Ministry have authorised Bradshaw, Gass, and Hope, 19 Silverwell Street, Bolton, to prepare working drawings for extensions to the Royal Infirmary, for Manchester Regional Hospital Board. Estimated cost £550,000.

Blackpool, Lancs.—Work to commence at the end of next month on the erection of a synagogue in Raikes Parade, for the Blackpool Reform Jewish Congregation. Estimated cost £10,000.

Blaydon, Dur.—S. H. Chippindale and Co., Bradford are planning the construction of a shopping centre at Blaydon; a contract is expected to be let soon for factory, offices, etc at Chainbridge Road for Boyd and Co., Newcastle upon Tyne. The architects are Wetherell, Lamb and Partners, 24 Picton Place, Newcastle upon Tyne.

Bolsover, Derbys.—Provisional licence has been granted to Hammond's United Breweries, Market Hill, Scunthorpe, Lincs., for the erection of a public house at the Castle housing estate.

Boreham Wood, Herts.—L.C.C. approved the provision of 81 more garages at Boreham Wood estate, Estimated cost £10,650.

Bradford, Yorks.—City Council recommended to appoint Clyde Young and Bernard Engle, 8 New Square, London, W.C.2, architects for extensions to teaching and residential blocks at Margaret McMillan Memorial Training College.

City Council recommended to purchase Wyke Church School, Town Gate, Wyke, for use as a clinic. Adaptations estimated to cost £2,870.

Bridlington, Yorks.—Leeds Regional Hospital Board recommended, subject to Ministry approval, to approve scheme for improvement of ward ancillaries at Lloyd Hospital, and a 24-bed ward with a small physiotherapy department at Bempton Lane Hospital.

Brighton, Sussex.—T. Mortimer Burrows and Partners, 44 Bedford Row, Holborn, W.C.1, are the architects and quantity surveyors for the erection of a building, comprising shops and offices at 104-107 Queens Road and 11 Frederick Street, for Thames Estates and Investments, Ltd., 14 Waterloo Place, Pall Mall, London, S.W.1.

B.C. recommended to approve scheme and invite tenders for the provision of sanitary facilities at 479-481 Mile Oak Road, estimated cost £1,300; prepare scheme for alterations to the London Road Congregational Church for light industrial purposes, £3,500 to £4,000; appoint W. G. Phillips and Partners, 159 Preston Road, as architects for the adaptation of the west wing of Warren Farm building for secondary school purposes.

Bristol.—Planning and Public Works Committee have approved scheme for demolition of 21 and 23 Clare Street, and the erection of a five-storey office block on the site, for the General Assurance Co., Ltd., Dominions House, St. Augustines Parade.

Bromley, Kent.—Licensing Committee have granted a provisional full-on licence for the erection of the Charcoal Burner public house on the north side of Main Road, Sidcup, for Courage and Barclays, Ltd., Horleydown, London, S.E.1.

Bromyard, Worcs.—R.D.C. have approved plans for new council offices. Estimated cost £3,000.

Burnley, Lancs.—Masseys (Burnley) Brewery, Ltd., Bridge End, to erect licensed premises on the corner of Boot Street and Croft Street.

Cambridge.—Architects' Co-partnership, 44 Charlotte Street, London, W.1, are the architects for a new hostel for undergraduates on site of the Central Hotel off Market Square for the Governing Body of King's College.

Cardiff.—E.C. have approved in principle scheme for the erection of a new secondary modern school for boys and girls at The Drope, Ely.

Carlisle, Cumb.—A Ministry inquiry has been held into a scheme by Cowans, Sheldon and Co., Ltd., to extend their works at Harraby Green. The architects are Johnston and Wright Castle Street.

Chelmsford, Essex.—C.C. have approved detailed plans, prepared by H. Conolly, county architect for the erection of a new office block for County Hall, consisting of a central 96ft. nine-storey block on the present County Hall car park, and two three-storey blocks replacing existing houses on the Market Road and King Edward Avenue frontages. Estimated cost £641,000.

Crewe, Ches.—Manchester Regional Hospital Board to prepare working drawings and bills of quantities for provision of sterilising suite at Crewe and District Memorial Hospital.

Croydon, Surrey.—L.C.C. approved the construction of an arts and crafts room, the provision of a central-heating system and other improvements at Shirley Primary School. Estimated cost £25,460.

Denbighshire.—C.C. have approved in principle scheme for extensions to the County Offices at Ruthin, including the provision of office accommodation, Council chamber and committee rooms. Estimated cost £360,000.

Deptford.—L.C.C. approved plans by Hasker and Hall, 13 Welbeck Street, London, W.1 for the erection of a three-storey block and schoolkeeper's house at Haberdashers' Aske's Hatcham (Girls) School. Estimated cost £55,845.

Dewsbury, Yorks.—Provisional licence granted for erection of new premises in Owl Lane, Shaw Cross, for Beverley Bros., Eagle Brewery, Wakefield.

Dublin, Eire.—Hooper and Mayne, 19 Upper Merion Strete, Dublin, are the architects for the proposed new College of Technology, Kevin Street. Desmond MacGreevy, quantity surveyors, 4 Merrion Square, and J. Varmins and S. Mulcahy, 4 Northbrook Road, Leeson Park, Dublin, the mechanical engineers. Estimated cost £1m. Tenders are not expected to be invited for 18 months.

Dudley, Worcs.—Licensing Justices have granted a provisional licence for the erection of a public-house at corner of Corbyns Road and Middle Park Road, for J. Hanson and Sons, Ltd., Tower Street.

Durham.—Turner and Townsend, 71 Woodland Road, Darlington, have been appointed quantity surveyors by the C.C., for new schools at Cleadon, Lanchester, Peterlee, Rowlands Gill, Cornforth, and Annfield Plain; R. H. Duns, Lambton House, Lambton Road, Jesmond, Newcastle upon Tyne, is the quantity surveyor for new schools at High Usworth, West Pelton and Jarrow, and alterations to Houghton-le-Spring Grammar/Technical School.

Easington, Dur.—Durham Coal Board (No. 3 Area), Castle Eden, are to erect a dry cleaner building at Horden Colliery.

Plans are being prepared by W. and T. R. Milburn, 4 Grange Terrace, Sunderland, for the rebuilding of the Murton Democratic Club.

Eston, Yorks.—North Riding C.C. recommended, subject to M.E. approval, to purchase site at Teesville for new county junior school.

Eastbourne, Sussex.—B.C. recommended to invite tenders from selected contractors for the construction of the concert and conference hall; approve subject to grant aid, scheme for the provision of an additional Dutch Barn at Chalk Farm, estimated cost £1,000; approve in principle the construction of an old people's home in Seaside; prepare plans for a junior training centre at Langley Rise; appoint Martin and Martin, 5 Hyde Gardens, as quantity surveyors, for the erection of changing accommodation at Prince Park

B.C. raises no objections to plans for the teaching block, workshop block and boiler house, comprising stage one of the scheme for the development of Eastbourne College of Further Education.

B.C. recommended to lease a site at the Brampton Road trading estate to T. Wall and Sons, Ltd., 59 Park Royal Road, London, N.W.10, for the erection of a depot (floor aret 6,000 sq. ft.).

Edinburgh.—City Council recommended to approve detailed plans for the development of the arts faculty in George Square, for the University. Robert Mathew and Johnson-Marshall, 31 Regent Terrace, Edinburgh, 7, are the architects.

Edinburgh.—The Governing Body of Dunfermline College of Physical Education, Woolmanhill, Aberdeen, propose to erect a new college at Cramond Estate, Edinburgh.

Edmonton, Middx.—C.C. propose to erect a clinic for the Bush Hill area. Estimated cost £14,000. B.C. proposed to erect a library for the Bush Hill area, £30,000.

Exeter.—City Council recommended to apply for sanction to borrow £17,295 for the improvement of 99 dwellings at Buddle Lane estate; prepare plans for the construction of workshops for the blind at Guinea Street.

Gateshead, Dur.—Schweppes, Ltd., Connaught Place, London, W.1, are to erect a bottling factory on Team Valley trading estate. Plans are being considered. The architects are Tripe and Wakeham, 16 Fitzhardinge Street, London, W.1.

Smith's Delivery Vehicles, Ltd., Team Valley, are to build a 27,000 sq. ft. extension to their works. No contracts have been let, and plans have still to be approved by the planning authorities; extensions proposed to furnishing stores in Warwick Street for Bywells, Ltd. The architect is C. Solomon, 30 St. Mary's Place, Newcastle upon Tyne. No contracts let; Grieves Elliott, Ltd., Stoddart Street, Newcastle upon Tyne are considering the erection of a furniture factory at East Gateshead.

Glastonbury, Som.—Licence has been granted to Brutton, Mitchell, Toms, Ltd., 15 Princess Street, Yeovil for new premises to be erected to replace the present Glastonbury Arms at the High Street.

Hackney.—L.C.C. approved the erection of a drill-tower at Homerton fire station. Estimated cost £17,000.

Harrogate, Yorks.—B.C. recommended to approve plans for the erection of an ice cream factory at Chatsworth Terrace, for A Cassinelli, 123 Bilton Lane, Harrogate and alterations to provide a super-market at St. James Cinema, Cambridge Street, for Thrift Stores, Ltd., Acomb Court, Wetherby Road, Acomb, Yorks.

Hoylake, Ches.—Full licence has been granted to the Birkenhead Brewery Co., Ltd., 73 Oxton Road, Claughton, Birkenhead for the proposed new hotel, The Blue Anchor at Market Street.

Huddersfield, Yorks. — Leeds Regional Hospital Board propose new geriatric and psychiatric units at St. Luke's Hospital, Crossland Moor, estimated cost £750,000, and alterations involving the upgrading of Mill Hill Hospital, £20,000.

Ipswich, Suffolk.—L.C.C. approved the erection of a hostel for domestic staff at Woolverstone Hall Secondary Boarding School. Estimated cost £9,420.

Islington.—B.C. recommended to approve in principle modernisation of part of the Caledonian Road Baths. Estimated cost £7,300.

Jarrow, Dur.—Matkin and Hawkins, Barclays Bank Chambers, Fawcett Street, Sunderland are the architects for the erection of sawmill, offices, stores, and canteen in Straker Street for Pyman Bell and Co., Ltd., 65 Quayside, Newcastle.

Kingston-upon-Thames, Surrey.—B.C. propose to erect a sports pavilion at the Latchmere recreation ground. Estimated cost £5,000.

Kirkcudbrightshire.—C.C. propose to erect a new secondary school at Gatehouse-of-Fleet. Estimated cost £79,266.

Kirkburton, Yorks. — Leeds Regional Hospital Board propose modernising Storthes Hall Hospital. Estimated cost £727,000.

Kirkcaldy, Fifes.—Boots Cash Chemist (Northern), Ltd., Station Street, Nottingham, propose a new shop in the main shopping centre. Colin St. Clair Oakes is the company architect. Estimated cost £70,000.

Lambeth.—L.C.C. approved a scheme for sanitary and other improvements at Wyvil Primary School. Estimated cost £9,500.

Leamington Spa, War.—B.C. recommended to approve scheme for the restoration in prefabricated stone of the Aylesford Well building. Estimated cost £1,250.

B.C. recommended to approve, subject to conditions, plans for five shops with five flats above, five garages and service road at 105-123 Tachbrook Road, for L. T. Beamish and Sons, Ltd., 80 Alderbrook Road, Solihull; extension of printing works at Augusta Place, Portland Road corner, for Courier Press, Ltd., Bedford Street.

Leeds. — Regional Hospital Board have approved, for submission to the Ministry scheme for development at St. James's Hospital. Estimated cost £300,000.

Lerwick, Zetland.—B.C. propose to provide new public lavatories on the esplanade. Estimated cost £8,000.

Liskeard, Corn.—Blamey and Morcom, Ltd., have prepared plans for new buildings, offices, stores and parking area, etc., at the Pavlova Works, off Barn Street. Estimated cost £100,000.

Macclesfield, Ches.—British Railways are to demolish the existing Central and Hibel Road Stations and erect a new station on the Central Station site. Estimated cost £200,000.

Maidenhead, Berks.—B.C. recommended to approve revised plans for the erection of 10 shops at Cox Green estate.

Manchester.—Regional Hospital Board to prepare working drawings and bills of quantities for extensions and alterations to pharmacy at Park Hospital, Davyhulme, and alterations to 829-831 Rochdale Road to provide improved accommodation for antenatal clinic at Beech Mount Maternity Home.

Revised scheme to be submitted by the Regional Hospital Board to the Ministry for conversion of ward 12 to provide neurosurgery unit at Booth Hall Hospital.

Margate, Kent.—Ministry have approved scheme for a maternity unit adjoining Margate General Hospital, for The South East Metropolitan Regional Hospital Board.

Middlesbrough, Yorks.—C.W.S. Architects' Dept., 90 Westmorland Road, Newcastle upon Tyne have prepared plans for alterations and additions to premises at Linthorpe Road for Co-op. Society, Ltd.; outline plans have been prepared by Garbutt, Archibald and Archibald, 23 Albert Road, for additions to grocery stores in South Street, for Amos Hinton and Sons, Ltd., Kitching and Co., 21 Albert Road, are the architects for the conversion of the Gem Cinema, High Street, North Ormesby into shops, stores, and offices for the Moores Group (Organisation), Ltd., Jesmond, Newcastle upon Tyne, and for alterations and additions to dry cleaning works in Roman Road for Rapid Cleaners, Ltd.

Middlesex.—C.C. recommended to approve in principle erection of surface convenience in Finsbury Park. Estimated cost £12,000.

Morpeth, Northumb.—County Welfare Committee have purchased Merley Croft for conversion into a home for handicapped people. Alterations will cost £39,000.

Newcastle upon Tyne. — The Council of King's College have decided to build a new department of agriculture in College Avenue, and plans are in hand. The architects are W. B. Edwards and Partners, Claremont Buildings.

Northfleet, Kent. — U.D.C. to prepare schemes for repairs and decorations to temporary bungalows. Estimated cost £3,250.

Northleach, Glos.—R.D.C. have approved plans for dressing rooms at King George's field, for the Football Club.

North Riding.—C.C. recommended to approve provision of covered accommodation for plant at Central Depot, Northallerton, and at West Ayton highway depot. Estimated cost £2,000 each.

Norwich. — East Anglian Regional Hospital Board have appointed Davis, Belfield and Everest, 38 Prince of Wales Road, as quantity surveyors for the division of female ward 8 on three floors to form self-contained units at Hellesdon Hospital.

Planning Committee have approved plan for extensions at 12-14 Brigg Street, for Boots Pure Drug Co., Ltd., Nottingham.

Orrell, Lancs. — Licence granted for erection of new hotel in City Road, for Magee, Marshall and Co., Crown Brewery Bolton. Estimated cost £28,000.

Oxford.—City Council recommended to apply for sanction to borrow £213,940 for five-year programme to improve amenities in prewar houses.

Oxford.—R.E. Enthoven, architect, 4 Raymond Buildings, Grays Inn, London, W.C.1, has prepared plans for a large extension scheme to provide additional accommodation at 21 St. Giles, for the Governors of Queen Elizabeth House. Estimated cost £75,000.

Preston, Lancs.—Manchester Regional Hospital Board to submit to the Ministry for approval in principle, scheme for new outpatients' department at Sharoe Green Hospital, Fulwood, near Preston.

Rhyl, Flints.—Richard and Douglas Hall, Bowdler's House, Town Walls, Shrewsbury, are the architects for the proposed demolition of the Foryd Hotel and the erection of a new hotel at the junction of West Parade and Quay Street, for Ind Coope and Allsopp, Ltd.

Romford, Essex.—C.C. have approved, subject to Ministry approval, sketch plans for the erection of a public library. Estimated cost £217,890.

B.C. recommended to approve sketch plans for the proposed Harold Hill Community Centre; scheme for improvements to cashier's office in Borough Treasures's Department, estimated cost £3,000; prepare detailed plans for the erection of new public baths on site at the northern part of Mawney Park.

Royston, Herts.—U.D.C. to proceed with scheme for the erection of the proposed bus station at Barkway Street. Estimated cost £1,500 to £1,600.

St. Andrews, Fifes.—University Court of St. Andrews propose to erect new departments of physics, mathematics, chemistry and geology on a 30-acre site to be known as the North Haugh site, in the Buchanan Gardens area, and an adjoining 70 acres south of Guardbridge Road. Estimated cost £2m.

St. Pancras.—L.C.C. have appointed J. E. G. Palmer, of Rendel, Palmer and Tritton; V. A. M. Robertson, of Sir William Halcrow and Partners; and P. F. Shepheard, of Bridgwater and Shepheard, to advise them on the British Transport Commission's proposals for reconstructing Euston station.

Salford.—City Council have approved plans for erection of factory and office buildings, approx. 45,000 sq. ft. with canteen, baths and car park, on land adjoining 287-303 Whit Lane, Collier Street, Elton Street and Canal, for Barlow and Chidlaw, Ltd., Grafton Street, Manchester, 6, subject to conditions.

Scarborough, Yorks.—Leeds Regional Hospital Board recommended to approve, subject to Ministry approval, scheme for theatre suite and X-ray department at General Hospital.

Scarborough, Yorks. — E. Allen, 32 St. Nicholas Street, is the architect for additions to printing works at Aberdeen Walk, for Scarborough and District Newspapers, Ltd.

Sheffield.—Montague Burton, Ltd., hope to places a contract within a couple of weeks for erection of the Peter Robinson building at junction of High Street, Angel Street and King Street. Oswald E. Parratt, quantity surveyor, Adelaide House, London Bridge, London, E.C.4. N. Martin, staff architect.

Sheffield.—Tenders are now being obtained for erection of the Gleadless Valley Methodist Church at Blackstock Road, for Methodist Mission. J. Mansell Jenkinson and Son, architects, 53 Wilkinson Street, Sheffield, 10. Estimated cost £21,000.

Skipton, Yorks.—West Riding C.C. recommended to approve the erection of old people's home at Higherlands housing estate, Gargrave. Estimated cost £46,438.

Slough, Bucks.—L.C.C. approved the erection of a further 291 garages at Britwell estate. Estimated cost £49,980.

Southgate, Middx.—Raymond Spratley and Partners, 9 Hertford Street, Park Lane, London, W.1, are the architects for the proposed erection of an office building at the site of the Capitol Cinema, Green Lanes, N.21, for the Rodwell Group, Ltd.

Stockton-on-Tees, Dur. — Town Planning Committee have approved sketch plans for rebuilding of industrial premises in Boathouse Lane, off Bridge Road, to form a petrol filling station, showrooms and repair shop, for Sherwood Bros. (Darlington), Ltd., Bridge Road.

Sunderland, Dur.—C.W.S. Architects' Department, 90 Westmorland Road, Newcastle upon Tyne, prepared plans for single-storey distribution depot in William Street.

Aterations proposed to the domestic block and the sanitary annexes at Cherry Knowle Hospital, for Newcastle Hospital Board. No contracts let. The architects are G. T. Brown and Son, 53 Fawcett Street, and the consulting engineer, F. M. Owsnett, Lloyds Bank Chambers, Fawcett Street.

Surbiton, Surrey.—B.C. have approved the erection of a public convenience adjacent to the Central Library. Estimated cost £3,850.

Swinton and Pendlebury, Lancs.—B.C. recommended to prepare scheme for the erection of a central library and public hall.

Thetford, Norfolk.—B.C. have approved in principle, an application to extend existing premises at London Road industrial estate, for J. A. Clark and Co.

Thorne, Yorks.—Plans approved for extensions at factory of the Shipley Mohair and Worsted Spinning firm of C. F. Taylor and Co., North Eastern Road.

Wakefield, Yorks.—Leeds Regional Hospital Board have approved the erection of a 400/500-bed comprehensive hospital for the mentally defective. Site to be selected.

Wallingford, Berks.—B.C. recommended to approve the erection oof a pavilion at the Bull Croft, for Wallingford Town Football Club.

Walsall, Staffs.—B.C. recommended to apply for sanction to borrow £59,970 for the erection of the junior department of Hatherton Lane County Primary School.

Wandsworth. — B.C. recommended to engage C. E. Smart and Partners, 42 Theobalds Road, London, W.C.1, as the quantity surveyors for public conveniences proposed at junction of Atkins Road and Povnders Road; B.C. recommended to agree, in principle, to appropriation and redevelopment of Alston Road Depot site for residential and open space purposes, and to arrange for clearance of all buildings from the land.

West Lothian.—C.C. propose to erect a new slaughterhouse at Birniehill, Bathgate.

Westminster.—City Council recommended to engage Powell and Moya, 30 Great Smith Street, London, S.W.1, to prepare a sketch design for a community centre at Churchill Garden estate.

Whitefield, Lancs. — C.C. to apply for planning permission for erection of a library in Pinfold Lane.

Wigan, Lancs.—R.D.C. have approved plan for offices and extension to factory at Skull House Lane, Appley Bridge, for Edmund Taylor (Engineers), Ltd., subject to Divisional Planning Office approval.

Woolwich.—L.C.C. approved a scheme for the provision of additional residential and ancillary accommodation, construction of roads and the laying out of the playing field at Avery Hill training college. Estimated cost £416,798.

Yeovil, Som.—Home Office have approved the erection of divisional headquarters and a fire station, for County Fire Brigade Committee. Estimated cost £53,000.

York.—War Office to spend about £200,000 on improving Army barracks at Strensall.

DEMOLITION

Hackney.—L.C.C. approved the acquisition, clearance and partial redevelopment of the Downs Road site. Estimated cost £854,000.

Poplar.—L.C.C. approved the acquisition, clearance and partial redevelopment of the Ford Road areas. Estimated cost £593,000.

Worthing, Sussex.—B.C. to apply for sanction of Dalhousie Hotel at the corner of Carlogie Road and Church Street.

GAS AND WATER SUPPLY

Aldeburgh, Suffolk.—Borough Surveyor to prepare outline plans for augmenting the town's water supply.

Cockermouth, Cumb.—R.D.C. to spend £6,250 on a piped water supply scheme for Buttermere.

Marshland, Norfolk.—Co. Health Committee have approved R.D.C.'s water supply extension scheme. Estimated cost £11,835.

Middlesbrough, Yorks. — Tees Valley and Cleveland Water Board are to invite the following firms to submit tenders for exploratory borings in connection with the proposed

Gateley Moor reservoir (30-35,000,000 gallons): Cementation Co., Ltd., J. Laing and Sons, Ltd., Foundation Engineering, Ltd., and J. Mowlem and Co., Ltd.

Oswestry, Salop.—B.C. have approved the laying of a water main to serve the Brynhafod. Estimated cost £1,229.

R.D.C. recommended to approve the provision of a water main from Kinnerley to Ouobbs. Estimated cost £3,000.

St. Ives, Hunts.—B.C. recommended to apply for sanction to borrow £2,714 for laying various water mains.

Startforth, Yorks. — R.D.C. propose water mains extensions at Rokeby and Wycliffe with Thorp.

Uttoxeter, Staffs.—U.D.C. to apply for sanction to borrow £2,000 for laying a 6in. dia. water main from Bramshall pumping station to the rural district boundary.

Worthing, Sussex.—B.C. to apply foor sanction to borrow £13,000 and invite tenders for sinking and testing an experimental borehole at Arundel Road, east of Stanhope Lodge.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Lothingland, Suffolk.—Land Drainage Committee of the East Suffolk and Norfolk River Board to submit to Ministry for approval and grant aid, scheme for sea-wall and groyne system to cover the frontage from Easton Bavents to the Southwold boundary. Estimated cost £61,182.

HEATING AND VENTILATING

Eastbourne, Sussex.—B.C. recommended to approve a scheme by A. F. Myers and Partners, consultants, 147 Victoria Street, London, S.W.1, for the heating of the Wish Tower sun lounge and cafe.

Stamford, Lincs.—East Anglian Regional Hospital Board have appointed F. J. Lenton and Partners, 16 Broad Street, as architects for the provision of air-conditioning plant for operating theatre at Stamford and Rutland Hospital.

HOUSING SCHEMES

Abram, Lancs.—U.D.C. to apply for Ministry approval, for erection of 26 houses for the year.

Barnsley, Yorks.—B.C. recommended to invite tenders for erection of 90 dwellings on sites at Gawber Road, Laithes Close, Wollaton Close and Clifton Crescent.

Basingstoke, Hants.—North East Hampshire Area Planning Committee have approved plans for eight pairs of old people's bungalows at Paulet Place, Belle Vue Road, Basing, for R.D.C.

Blaydon, Dur.—A. Watson, Front Street, Whickham, seeking the approval of the planning authorities for the erection of several hundreds of private houses at Barlow.

Bridgnorth, Salop.—B.C. recommended to approve amended layout plan for 38 houses, 12 maisonnettes, six flats and 12 flatlets at Sydney Cottage estate extension.

Downpatrick, Down.—U.D.C. have approved in principle the erection of 64 new houses at the site of Clelands' stackyard, Fountain Street.

Edinburgh.—City Council recommended to approve the erection of a hostel block at Niddrie Mains Farm. Estimated cost £100,000. The site will also include 18 houses for elderly people and a warden's house, £30,000.

Enfield, Middx.—Campion and Dickins, 28 Little Park Gardens, Enfield, are the surveyors for 10 flats and garages at 36 Queens Road.

Exeter.—City Council recommended to approve plans and invite tenders for the erection of 18 dwellings at Calthorpe Road.

Frome, Som.—U.D.C. to prepare, in conjunction with Selleck Nicholls and Co., Ltd. St. Austell, plans for the development of the Marston Road housing site.

Gillingham, Kent.—B.C. have approved in principle, scheme for the provision of three blocks of 40 maisonnettes, extension of existing block of small flats by adding 21 dwellings and about 12 houses for the development of land in Saunders, Skinner, James and Cross Streets.

Glasgow.—Corporation sub-committee have approved plans designed by Basil Spence, 40 Moray Place, Edinburgh, for two multi-storey residential blocks for the Gorbals-Hutchesontown redevelopment area, providing a total of 400 houses.

Hereford.—R.D.C. have approved plans for 44 dwellings at Moreton-on-Lugg and 104 at Clehonger.

Hertford.—R.D.C. have approved scheme for the erection of a block of 10 old people's flats, three bungalows and a wardens house at Watton-at-Stone. Estimated cost £25,000.

Hexham, Northumb.—U.D.C. recommended to approve the erection of a hostel for about 16 old people and a further 24 aged persons' bungalows at Causey Hill.

Llandudno, Caerns.—U.D.C. to prepare scheme for the replacement of 50 prefabricated houses with permanent dwellings and blocks of flats (approx. 90 in all) at Tre Cwm housing estate, Maesdu.

Maidenhead, Berks. — Ministry have approved B.C.'s housing programme, comprising 70 houses, 36 two-bedroom flats, 10 one-bedroom flats, 10 shops with maisonnettes and 74 garages.

Malden and Coombe, Surrey.—B.C. recommended to approve the replacement of temporary bungalows in Sussex Place with two blocks of five-storey maisonnettes, a block of five-storey flats, three one-bedroom bungalows, 10 semi-detached houses and garages.

Middlesbrough, Yorks. — Ministry have granted permission to Shannon Contractors, Ltd., 44 Marshall Road, to erect 50 bungalows, 20 houses and two shops on seven acres of land at Blue Bell Farm, Acklam.

Oxford.—Ministry have approved the erection of 810 dwellings during this year, for City Council.

City Council recommended outline plans for the construction of 240 flats in 15 four-storey blocks, 84 maisonnettes, six shops with maisonnettes over, one two-storey block of 14 flats for old people, 445 dwellinghouses and 376 garages for private cars at Blackbird Leys estate, part 4.

Pen'stone, Yorks.—U.D.C. to apply to Ministry for permission to erect 12 two-storey flats and 20 old people's bungalows on the Shrewsbury Road site

Romford, Essex.—B.C. recommended to approve layout plans for the redevelopment of Highfield estate, comprising the erection of 500 dwellings, 253 lock-up garages, four shops with maisonnettes above, one 12-storey point block of 44 flats and aged persons' accommodation.

Salford, Lancs. — Housing Committee have approved in principle proposals for residential development of the Ellor Street/Bond Street Shrewsbury Road stie.

Salisbury, Wilts.—Ministry have approved the erection of 74 dwellings at Bishopdown estate and 64 at Essex Square during 1960-61, for City Council.

Scarborough, Yorks.—B.C. recommended to approve sketch plans for erection of 48 flats at Manham Hill, Eastfield.

Stockton-on-Tees, Dur. — Town Planning Committee have approved the erection of six houses and six flats and garages on land adjacent to the Methodist Church, Greens Lane, Hartburn, for A. E. Gray and Son, Ltd., Tyne Dale Street.

Strood, Kent.—C.C. have approved the erection of six semi-detached houses, one block of six old people's flats and the extension of the old road at Scrattonfields, Sole Street, for R.D.C.

Tynemouth, Northumb.—B.C. to build 44 one-bedroom flats on scattered sites, and four flats and 20 flatlets on the Marden estate.

Wallingford, Berks.—B.C. received Ministry sanction to invite tenders for 27 dwellings during this year; to apply for permission to include a block of flats for old people in the housing programme.

Wandsworth.—B.C. recommended to appoint A. E. Thornton Firkin and Partners, 17 Fitzhardinge Street, London, W.1, and Wm. C. Inman and Partners, 7 New Square, Lincoln's Inn, W.C.2, as the quantity surveyors for the St. Ann's Hill and Cautley Avenue housing schemes, respectively.

Whitley Bay, Northumb.—M. J. Liddell and Sons, Great North Road, Newcastle upon Tyne, have submitted plans to the planning authority for the erection of a six-storey block of luxury flats on the Whitley Lodge estate.

Wickham, Essex.—U.D.C. to proceed with scheme for the erection of an estate of 80 low-cost houses for sale.

Wigan, Lancs.—B.C. have submitted to the Ministry layout plan for development of Giants Hall playing field at Gidlow providing for 198 units, comprising two-storey houses and corner block flats and 124 garage spaces.

Wokingham, Berks.—George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, have applied to R.D.C. for permission to erect a further 222 houses on their site between Crockhamwell Road and Loddon Bridge Road.

PLAYING FIELDS, PARKS, ETC.

Bedford. — B.C. recommended to approve scheme for layout of Priory Gardens. Estimated cost £1,290.

Deptford.—L.C.C. approved the laying out of the first section of a new open space at Friendly Street. Estimated cost £20,000.

Enfield, Middx. — B.C. recommended to approve in principle the laying out of the Aylands Open Space. Estimated cost £12,000.

Lambeth.—L.C.C. approved an estimate of £8,624 for the laying out as a public open space the second stage (3.5 acres) of The Slade Garden.

Thetford, Norfolk.—B.C. to prepare scheme for a recreation ground at Mundford Road.

RIVER AND FLOOD PREVENTION WORKS

Richmond, Surrey.—B.C. propose to repair the Brentford Ait River Islands. Estimated cost £90,000.

Tewkesbury, Glos.—Co. Highways Committee have submitted to Ministry for approval, scheme for raising the Mythe causeway to the level of the new King John's Bridge.

ROAD, BRIDGES AND SITE WORKS

Alsager, Staffs.—U.D.C. to prepare plans for making-up part of Linley Road.

Barnsley, Yorks. — B.C. recommended to apply for sanction to borrow £20,200 for redevelopment of Keresforth Hill Road area.

Bradford, Yorks.—City Council recommended to approve scheme for widening of Beacon Road, between Beldon Lane and Beacon Hill Top. Estimated cost £8,669.

Brighton, Sussex.—B.C. recommended to approve scheme for repairs to Bevendean and Eastbourne Roads. Estimated cost £2,800.

Chorley, Lancs. — M.T. have approved construction of a roundabout at junction of Preston Street and Harpers Lane, for C.C. Estimated cost £5,668.

Eastbourne, Sussex.—B.C. recommended to apply for sanction to borrow £17,580 for further road and sewer works at Brampton Road trading estate; approve scheme for widening parts of Langley Rise and Hide Hollow. Estimated cost £102,918.

Exeter.—City Council recommended to apply for sanction to borrow £83,000 and £2,360 respectively for the construction of the Blackboy Road roundabout and the provision of further road and footpath works at Pinhoe Road trading estate.

Fareham, Hants.—U.D.C. have approved the erection of a 6ft. wide prestressed concrete bridge for pedestrians at Wallington Bridge. Estimated cost £1,500.

Hammersmith.—L.C.C. approved an estimate of £30,000 for the construction of a pedestrian subway under the Great West Road opposite Nigel Playfair Avenue.

Leigh, Lancs. — Borough Engineer to prepare a preliminary scheme for Leigh Bridge improvements. Estimated cost under £10,000.

Maidenhead, Berks.—B.C. recommended to negotiate a tender with T. Stevens and Sons, 62 Cox Green Road, Maidenhead, for the extension of the swimming pool car park; prepare schemes for the improvement of Altwood Road and the reconstruction of Marlow Road (part).

Newcastle upon Tyne. — City Council recommended to instruct the City Engineer to carry out regrading part of the runway at the Airport. Estimated cost £13,200.

North Riding.—C.C. recommended to approve following road improvement schemes: At Thornton Dale Church on the Pickering-Seamer Road, estimated cost £3,500; between Seamer traffic circus and Irton Lane on the Pickering-Seamer Road, £7,000; East Ayton Bridge (road 170), £16,000; Runs Bank on the Bellerby-Richmond Road, £2,943; widening New Bridge on the Helmsley-Stokesley Road, £2,000; between Far End Farm and Kirklevington traffic circus on the Scorton-Yarm Road, £2,900; Skelton Mill Bank, £35,000; Sneaton Village on the Whitby-Sneaton Road, £2,000; near East Lane House, Bishopdale, on the West Burton-Kettlewell Road, £2,611; near Sweden Sykes on the Yafforth-Langton Road, £1,000; Hartforth Lane End on the Richmond-Winston Road, £2,675; Dam Bridge, Cotherstone, on the Barnard Castle-Middleton-in-Teesdale Road, £1,045; Skutterskelfe Bridge on the Stokesley-Hutton Rudby Road, £4,000; Tame Bridge on the Stokesley-Hutton Rudby Road, £4,000; Semerwater on the road from Countersett, £3,000; Stainton Lane on the Walburn Hall-Stainton Road, £2,200; Aislaby (Whitby) on the eastern approach from A.171, £4,500; between the York City boundary and Cow Moor Bridge on the road to Stockton-on-the-Forest, £5,000; at Fairy Dell on the Marton-Hemlington Road (Gunnergate Lane), £7,920; from junction with East Ness-Welburn Road to junction with Nunnington Avenue, on the Nunnington-Ness Road, £4,500; Coldyhill Railway Bridge, Scalby, £23,200; between Over Dinsdale Bridge and Worsall Road, B.1264, £2,000; Wensley Low Lane, on the Middleham-Wensley Road, £5,820; between Stone Cross and Brompton on the Northallerton-Brompton Road, £2,500; at Delf Lane on the Knayton-Cowesby Road, £1,600; Mayfield Road, £6,000; Noodle Hill on the York-Stamford Bridge Road, £3,550.

Oxford.—City Council recommended to re-engage R. Morgan Travers and Partners, consulting engineers, 60 Aldermanbury, London, E.C.2, for the Donnington Road Bridge scheme.

Peterborough.—C.C. have approved scheme for improvements to Fulbridge Road. Estimated cost £29,602.

Poole, Dorset.—B.C. to seek planning permission for the construction of a car park on marshland, between Shore Road and the golf course in Luscombe Valley. Work will

include filling in, culverting of a stream and the provision of public conveniences. Estimated cost £91,000.

Portsmouth.—Roads, Works and Drainage Committee to apply for sanction to borrow £77,000 for removing tram tracks in Albert Road and Goldsmith Avenue, Southsea, reconstruction of Florence Road, Southsea, and improvement of Northern Parade (part), Milton Road (part) and Somers Road (part).

Ryde, I. of W.—B.C. to apply for sanction to borrow £17,000 for the construction of a central car park.

Salford, Lancs.—Highways Committee to submit to the M.T. plans for construction of a roundabout at the junction of Hampson Street, Middlewood Street, East Ordsall Lane.

Scarborough, Yorks.—B.C. recommended to approve plan for improvement of the sight line and widening of carriageway in Scalby Road. Estimated cost £8,916.

Walsall, Staffs.—B.C. recommended to apply for sanction to borrow £24,820 for the reconstruction of Stoney Lane from Little Bloxwich to Fishley Lane, including the reconstruction of Teece's Bridge.

Westminster.—L.C.C. approved the acquisition of property in order to complete the widening of Horseferry Road, between Marsham Street and Dean Ryle Street. Estimated cost of the property is £15,700 and of the works, £23,000.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Brecon.—B.C. recommended to proceed with the borough sewerage scheme, including the provision of new sewage treatment works and two major pumping stations. Thomas and Morgan and Partners, 23 Gelliwastad Road, Pontypridd, are the consulting engineers. Estimated cost £167,800.

Cockermouth, Cumb.—R.D.C. to spend £4,500 on sewerage scheme for Buttermere.

Exeter.—City Council recommended to apply for sanction to borrow £237,800 for stage I of scheme for the reconstruction of the sewage purification works at Countess Wear.

Haverfordwest, Pembs.—R.D.C. propose the construction of sewerage and sewage disposal works in the Parish of Puncheston. Plans have been prepared.

Leyburn, Yorks.—R.D.C. propose sewerage and sewage disposal scheme for Bellerby.

Meriden, War.—R.D.C. to prepare and submit to Ministry for approval, sewerage scheme for Castle Bromwich. Estimated cost £100,000.

Rainford, Lancs.—U.D.C. have approved scheme for improvements and extensions at the Rookery sewage disposal works. Estimated cost £24,500.

Richmond, Yorks.—R.D.C. propose sewerage and sewage disposal scheme for Gilling.

Startforth, Yorks.—R.D.C. propose sewerage and sewage disposal scheme for Romaldkirk.

Seaton, Devon.—U.D.C. have approved in principle, for submission to Ministry for approval, sewerage scheme for the district. J. D. and D. M. Watson, 67 Tufton Street, London, S.W.1, consulting engineers are to prepare plans. Estimated cost £54,000.

Sunderland, Dur.—B.C. have approved first stage of a £1¼m. scheme for the construction of a new sewerage network to rid the beaches and river of sewage. Plans provide for all north-side sewage, including that from Castletown, Whitburn, Cleadon, East and West Boldon, to be carried under the river at Folly End, Monkwearmouth, to link with the south-side system, covering south Hylton, Silksworth and Ryhope, as well as the town. Estimated cost £221,000.

Surrey.—Hogsmill Valley Joint Sewerage Board propose the following: Construction of new sludge drying beds, estimated cost £170,000; the second major project will be an administration building; store rooms and essential amenities for the staff, £50,000.

Wandsworth.—B.C. recommended to approve proposals for diversion of a sewer in the vicinity of Roehampton Lane, to be carried out by the L.C.C.

STREET LIGHTING

Billingham-on-Tees, Dur.—U.D.C. recommended to relight the whole of Haverton Hill Road during the 1960-61 financial year. Estimated cost £8,210.

Kidlington, Oxon.—Parish Council are considering schemes for the provision of trunk road lighting for the Oxford to Banbury Road and the installation of additional street lamps on village roads. Estimated cost £6,850 and £1,381 respectively.

Leamington Spa, War.—B.C. recommended to apply for sanction to borrow £1,330 for the improvement of lighting in Cubbington Road and £4,700 for class B-plus lighting scheme in various parts of the borough.

Surbiton, Surrey.—B.C. propose a scheme of street lighting improvements. Estimated cost £50,000.

CONTRACTS

*Full details of the Contracts marked * will be found in our Advertisement Columns.*

BUILDING AND DECORATING

(See also Housing Schemes)

Aberdeen.—Proposed new lavatory accommodation, Corporation Lodging House, for City Council. Application in writing to the City Architect, 11 Broad Street, Aberdeen. Tenders by April 8.

Accrington, Lancs.—Erection of a new fish market on a site adjoining the Market Hall for B.C. Documents from the Borough Engineer and Surveyor, 44 Union Street, Accrington. Deposit £2. Tenders by April 2.

Alcester, War.—Exterior painting of the following, for R.D.C.: (a) Twelve houses at Albion Terrace, Broom; (b) 45 houses, the Grove estate, Studley; (c) 36 houses, School Road, Bridge End and Rope Walk, Alcester. Documents from the Surveyor, Council Offices, Alcester. Tenders by April 6.

Ammanford, Carms.—External painting of 48 Council houses within the Urban District, for U.D.C. Documents from the Surveyor, Council Offices, College Street, Ammanford. Deposit £1 1s. Tenders by March 30.

Antrim.—Construction and completion of a Salaried Sub-Post Office at High Street, Ballymoney, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Deposit £5. Plans also seen at the District Architect's Office, 12 Church Street, Coleraine. Tenders by April 12.

Basildon, Essex.—Exterior painting of certain groups of properties within the district, for U.D.C. Applications to the Surveyor, 10b High Street, Billericay, by March 26. Deposit £2 2s.

Batley, Yorks.—Internal decorations to the Town Hall, Batley, for B.C. Documents from Borough Engineer, Hanover Street, Batley. Tenders by April 1.

Belfast.—Redecoration of various city schools, school meals kitchens and dining centres, for City Council. Documents from Education Architect, 40 Academy Street, Belfast, 1. Tenders by April 21.

Belfast.—Construction of an 18,000 sq. ft. factory at Dunmurry industrial estate, for Ministry of Commerce. Documents from Room 33, Chichester House, Chichester Street, Belfast. Deposit £3. Tenders by April 14.

Biggleswade, Beds.—Erection of five garages at Sutton Avenue, for U.D.C. Documents from the Surveyor, Stratton House, Biggleswade. Tenders by April 2.

Bognor Regis, Sussex.—Erection of a brick-built deck chair store and workshop (2,900 super. ft. in area) in Shripney Road, for U.D.C. Documents from Surveyor, Town Hall, Bognor Regis. Deposit £3 3s. Tenders by April 8.

Bollington, Ches.—Painting of external walls to 24 houses on the Bollington Cross estate, for U.D.C. Documents from Surveyor, Council Offices, Bollington, Macclesfield. Tenders by April 4.

Bradfield, Berks.—External painting of the undermentioned Council houses, for R.D.C.: (Contract 1) Beenham: Stoneyfield—28 houses; The Village—two houses. (2) Bradfield: Heath Road—10 houses. Ashampstead: Flowers Piece—two bungalows. (3) Bucklebury: Roundfield—10 houses. (4) Mortimer: Stephens Close—34 houses. (5) Padworth: Wharfside—four houses. (6) Pangbourne: Bucknell Avenue—12 flats, eight houses; Bourne Road—four houses; Wilder Avenue—four houses; Purley Way—nine houses, six bungalows. (7) Tilehurst: Windsor Way—12 houses; Clarence Way—six bungalows; Glamis Way—eight houses; Royal Avenue—eight houses. (8) Theale: Blossom Lane—18 houses. (9) Ufton Nervet: Marvyn Cottages—six houses. Applications in writing to the Surveyor to the Council, Council Offices, 26 Bath Road, Reading. Deposit £1 1s. Tenders by April 9.

Bridge-Blean, Kent.—Provision of (1) ceilings on part of ground floors of 1-6 Butts Meadow, Lower Hardres, and (2) internal doors at 1-8 Ross Gardens, Harbledown, for R.D.C. Documents from the Engineer and Surveyor, 41 Old Dover Road, Canterbury. Tenders by April 13.

Bridgwater, Som.—Exterior repair and decoration of council houses in the following parishes, for R.D.C.: Catcott, 14; Chilton Poldon, 10; Edington, six; Edington Burtle, 14; Fiddington, 10; East Lyng, 14; West Lyng, four; Moorlinch, four; Otterhampton, 30; Nether Stowey, 40; Over Stowey, 28; Spaxton, four; Thurloxton, eight. Documents from the Housing Manager, The Priory, St. Mary Street, Bridgwater. Tenders by April 26.

Brighouse, Yorks.—External painting of Corporation houses and properties as follows, for B.C.: Group 1—50 houses, Cain Lane estate, Southowram; group 2—52 houses, Summerfield Avenue, Bailiff Bridge. Documents from the Engineer and Surveyor, Commercial Street, Brighouse. Tenders by April 8.

***Cambridge.**—Erection of an indoor swimming pool, for City Council. Apply by April 4.

Cardiff.—External painting and minor repair works to dwellings as follows, for R.D.C.: (1) Rhoose, 66; (2) Pentyrch, 70; (3) Peterston-s-Ely, 36; (4) Dinas Powis, 21; (5) Wenvoe, 32; (6) Tongwynlais and Whitchurch, 50 dwellings and four shops. Documents from S. P. Youldon, engineer and surveyor 20 Park Place, Cardiff. Deposit £3 3s. each. Tenders by April 12.

***Chatham, Kent.**—External redecoration of Council houses, for B.C. Deposit £1 1s. Tenders by April 11.

Chelmsford, Essex.—New livestock market, phase 2—development, for B.C. Erection and completion of covered accommodation 200ft. by 160ft., comprising hyperbolic shell concrete roof supported on reinforced concrete framework. Documents from E. P. Allen, surveyor, Municipal Offices, Coval Lane, Chelmsford. Deposit £2 2s. Tenders by April 22.

Chester.—Erection of a shop and kiosk at George Street redevelopment, for City Council. Documents from the City Engineer and Surveyor, 49 Northgate Street, Chester. Tenders by April 9.

Chislehurst and Sidcup, Kent.—Construction of 120 lin. yd. boundary wall 3ft. high of Kentish ragstone, for U.D.C. Applications to Surveyor, Manor House, Sidcup, by March 28.

Crosby, Lancs.—Erection of public slipper baths at Church Road, Seaforth, for B.C. Documents from the Engineer and Surveyor, Town Hall, Waterloo, Liverpool, 22. Tenders by April 12.

Croydon, Surrey.—Building extensions to the Community Hall at New Addington, comprising three craft rooms and a small hall, for B.C. Documents from the Engineer, Town Hall, Croydon. Tenders by April 14.

Dartford, Kent.—External decoration of 733 Council houses, bungalows and shops at Temple Hill, Lowfield Street and Heath Lane estate, for B.C. Documents from Thomas Armstrong, town clerk, Council Offices, High Street, Dartford. Tenders by April 11.

Deptford.—External redecoration works to Council dwellings, for B.C. Documents from the Engineer, Deptford Town Hall, New Cross, London, S.E.14. Tenders by April 4.

Depwade, Norfolk.—Construction of an extension to pumping station at Rushall, comprising reinforced concrete sumps and brickwork superstructure, for R.D.C. Documents from A. P. T. Cotterell and Son, 54 Victoria Street, London, S.W.1. Deposit £3 3s. Tenders by April 11.

Derbyshire.—Erection of precast concrete garage block, 73ft. long by 30ft. wide and drainage works at Mainsfield Road, Hillstown, Bolsover, for C.C. Documents from S. Mehew, county surveyor, County Offices, Matlock. Deposit £2, cheques payable to Council. Tenders by March 28.

Dewsbury, Yorks.—Erection of boundary walls at various housing estates, for B.C. Documents from the Architect and Buildings Surveyor, Town Hall, Dewsbury. Tenders by April 4.

Doncaster, Yorks.—External painting of 201 houses at Armthorpe, 173 houses at Edlington, 46 houses at Campsall, and 28 houses at Warmsworth, for R.D.C. Documents from the Surveyor, Nether Hall, Doncaster. Deposit £5. Tenders by April 1.

Down.—Erection and completion of a new technical intermediate school at Banbridge, for County Education Committee. Documents from McCarthy and Lilburn, surveyors, 2 Wellington Place, Belfast, 1. Deposit £5 5s. Tenders by April 7.

Down.—Dismantling of shed, etc., in County Council's yard in Downpatrick and re-erection of structures at Castlenavan Quarry, for C.C. Documents from C. A. Craig, county surveyor, English Street, Downpatrick. Tenders by March 29.

Down.—Erection of a new child health clinic at Park Avenue, Newcastle, for County Health Committee. Documents from the County Planning Officer, English Street, Downpatrick. Deposit £3 3s. Plans also seen at the offices of G. M'Neill, surveyor, 29 Wellington Place, Belfast. Tenders by April 8.

Draperstown, Londonderry.—Erection of a voluntary primary school at Draperstown, for the Very Rev. M. Collins. Documents from the quantity surveyor, P. J. Davidson, 16 High Street, Belfast. Deposit £6 6s. Plans also seen at the office of M. A. Fitzpatrick, architect and surveyor, Strand Chambers, 16-18 Strand Road, Londonderry. Tenders by April 11.

Dunblane, Perths.—Erection of a new junior secondary school at Dunblane, the area of which will be not less than 40,000 sq. ft., for

the Perth and Kinross Joint County Council, comprising excavator, concrete and brick works; carpenter and joiner works; plumber work; roughcast work; plaster and tile works; glazier work, and electrical work. Written applications to Architect, New Schools Section, Old Academy Buildings, Rose Terrace, Perth, by March 30.

Dundee.—Construction of a transit shed and offices at the Queen Elizabeth Wharf at Dundee Harbour, for the Harbour Trust. The shed is to be of single span, and the principal dimensions are about 385ft. by 100ft. by 23½ft. clear height under roof trusses. Documents from Alexander Smith, general manager and engineer, Dundee Harbour Trust, Harbour Chambers, Dock Street, Dundee. Tenders by April 15.

Durham.—Following, for C.C.: Browney County School—erection of new out-offices; Felling County School—erection of new out-offices; Horden Girls' Modern School—renewal of wood floors; Peterlee Shotton Hall New County Junior School—(a) tarmacadam pavings; (b) playing fields. Applications to Architect, South Street, Durham, by March 30.

East Dereham, Norfolk.—Erection of 11 garages at Moorgate Road, for U.D.C. Documents from the Housing Department, East Dereham U.D.C., Assembly rooms, Dereham. Tenders by April 12.

Ely, Cambs.—Following, for R.D.C.: Provision of bathrooms (including hot water installations, water closets, drainage, etc.), in 36 houses at Black Horse Drove, Little Thetford, Wardy Hill and Wilburton (in which parish the work also includes a sewage treatment plant). Documents from Surveyor, Council Offices, 11 Lynn Road, Ely. Deposit £5 5s. Tenders by April 12.

Eton, Bucks.—Builders' work in connection with the installation of oil-fired boilers at Stoke Park House, Stoke Poges, for R.D.C., comprising: Erection of single-brick flue stack on face of existing building, rising to a height of approx. 64ft. above floor of boiler house; conversion of existing fuel storage area to new boiler house; construction of bases to boilers, burners, pumps, etc.; general attendance on heating engineers. Documents from the Engineer and Surveyor, Council Offices, Windsor Road, Slough. Tenders by March 31.

Fintona, Tyrone.—Construction of a retaining wall and general repairs at and to Blackford Primary School, including the hutted classroom. Documents from Very Rev. L. Gilmartin, P.P. Fintona. Tenders by March 28.

***Gloucestershire.**—Erection of a school at Lydney, for C.C. Apply by April 5. Deposit £2 2s., payable to C.C.

Gosport, Hants. — Erection of two public conveniences, for B.C.: (1) At Lee-on-the-Solent Recreation Ground; and (2) at Stanley Park (each approx. 300 super. ft. brick construction, with reinforced concrete roof). Documents from Deputy Borough Engineer, The Hall, Haslar Road, Gosport. Deposit £2 2s.

Hampshire.—Following at Alresford Perin's County Secondary School, for C.C.: Erection of a new kitchen (floor area approx. 1,270 sq. ft.) and a new assembly hall (floor area approx. 3,600 sq. ft.). Applications to Jackson and Greenen, Hinton Buildings, Hinton Road, Bournemouth. Deposit £2 2s., cheque payable to County Treasurer. Tenders by April 1.

Harpenden, Herts.—Installation of 107 hot water systems, 222 washbasins and certain other incidental works in various houses on the Westfield and Longfield Road housing estates, for U.D.C. Documents from J. Snowdon, housing manager, Harpenden Hall, Harpenden. Deposit £1 1s. Tenders by March 28.

Hatfield, Herts.—Construction of a sports pavilion on the playing fields at Longmead, for Parish Council. Documents from F. A. Adams, 93 Chelwood Avenue, Hatfield. Deposit £1. Tenders by April 9.

Hereford.—Erection and completion of 116 garages on the following sites, for City Council: (1) Cagebrook Avenue, New Hunderton, 13; (2) Golden Post, New Hunderton, 30; (3) Belmont Road, New Hunderton, 28; (4) Mansbridge Avenue, Portfields, 28; (5) Canonmoor Street, 17 (including six commercial garages). Documents from City Architect, Town Hall, Hereford. Deposit £1 1s. each scheme. Tenders by April 11.

Hinckley, Leics.—Erection of nine brickwork bus shelters, Lancaster Road Bus Station, for U.D.C. Documents from the office of the Surveyor, Argent House, St. Mary's Road, Hinckley. Deposit £2. Tenders by April 7.

Holland.—Reorganising the lavatory accommodation at Kirkton County Primary School, for C.C. Documents from the County Architect, County Hall, Boston. Tenders by March 31.

Huddersfield.—Painting of traction poles, etc., on the Department's trolley vehicle system during 1960, for Corporation Passenger Transport Department. Documents from E. V. Dyson, general manager, 66 John William Street, Huddersfield. Tenders by March 28.

Hull.—Painting work within the various parks, cemeteries and recreation grounds, for City Council. Documents from the General Superintendent, Parks, etc., Department, 79 Ferensway, Kingston upon Hull. Tenders by April 4.

Hunstanton, Norfolk.—Erection of a block of six chalets on the North Promenade, for U.D.C. Documents from the Surveyor, Council Offices, Hunstanton. Tenders by April 4.

Keighley, Yorks. — Internal painting, first-class bath, and internal and external painting of new extension, Municipal Baths, for B.C. Applications to E. G. Felgate, Borough Architect's Department, College Street, Keighley. Deposit £1. Tenders by April 7.

Kidderminster, Worcs. — External redecoration of approx. 400 houses situated on two separate estates, for B.C. Documents from the Surveyor, 110 Mill Street, Kidderminster. Tenders by April 4.

Kidderminster, Worcs.—Erection of a public convenience and attendant site works at a site in Mill Street, for B.C. Documents from the Borough Engineer and Surveyor, 110 Mill Street, Kidderminster. Deposit £2 2s. Tenders by April 4.

Kincardineshire.—Joiner and painter work for the conversion of the existing dining room and art room, etc., at Laurencekirk Junior Secondary School, for C.C. Documents from County Architect and Planning Officer, Westfield House, Arduthie Road, Stonehaven. Tenders by March 31.

Kingston-upon-Thames, Surrey.—Repair of approx. 55 chimney stacks, on the Norton estate, for B.C. Documents from Borough Surveyor, Guildhall, Kingston-upon-Thames. Deposit £2 2s. Tenders by April 7.

Knutsford, Ches.—Conversion and adaptation of the Marcliff Cinema, Knutsford, into a public hall, for U.D.C. The works consist of alterations to the main hall, provision of dance floor, additional toilets, interior decoration, lighting and general repairs. Documents from the Surveyor, County Offices, Toft Road, Kuntsford. Deposit £2 2s. Tenders by April 2.

Lanarkshire. — Painter work in connection with the erection of a fire station at East Kilbride, for the Fire Brigade Joint Committee. Documents from Gavin Paterson and Son, architects, 6 Cadzow Street, Hamilton. Tenders by March 29.

Lancashire.—Alterations and improvements to kitchen and toilets at Irlam Cadishead County Secondary School, for C.C. Applications to Architect, P.O. Box 26, County Hall, Preston, by 10.30 a.m. March 28.

Lancaster.—Erection of a new crematorium together with roads, sewers, site works, etc., at Powderhouse Lane, Lancaster, for Lancaster and Morecambe and Heysham Joint Crematorium Committee. Documents from City Engineer, Town Hall, Lancaster. Tenders by April 27.

Leatherhead, Surrey.—Supply and erection of 276 precast concrete fuel bunkers, for U.D.C. Documents from Engineer and Surveyor, Red House, Leatherhead. Tenders by March 28.

Lexden and Winstree, Essex. — Conversion of existing fuel stores into bathrooms and installation of a hot and cold water system in eight houses at Whitehouse Cottages, Bourn Road, West Bergholt, for R.D.C. The successful contractor will be required to enter into a bond in the sum of 10 per cent. of the contract amount. Documents from the Surveyor, Rebow Chambers, Sir Isaac's Walk, Colchester. Deposit £2 2s. Tenders by April 5.

Liverpool.—Conversion to three flats, repairs and decorations, 39 Falkner Street, for City Council. Documents from Surveyor, Municipal Buildings, Liverpool, 2. Tenders by March 28.

Liverpool.—Internal painting at various schools, etc., for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by March 31.

Liverpool.—Strengthening floors, Richmond Terrace School, for City Council. Documents from City Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by March 31.

Liverpool.—Construction of following, for City Council: (a) Scullery and store room, Finch Hall, County Primary School, Maidford Road, Liverpool, 14; (b) Stoneycroft Special School, Queens Drive, Stoneycroft, Liverpool. Documents from Architect and Director of Housing, Blackburn Chambers, Dale Street, Kingsway, Liverpool, 2. Deposit £2 2s. each, payable to treasurer. Tenders by April 4.

Londonderry.—Erection of two sanitary buildings at the caravan site, Coast Road, Portstewart, for C.C. Documents from W and M. Given, surveyors, 1 Waterside, Coleraine. Deposit £3 3s. Tenders by April 1.

Lurgan, Armagh.—Erection of a factory at Robert Street, Lurgan, for Ministry of Commerce. Documents from the Ministry of Commerce, Room 28, Chichester House, 64 Chichester Street, Belfast, 1. Deposit £3. Tenders by March 29.

Luton, Beds.—Erection and completion of a block of six classrooms at Challney C.S.M. School, for B.C. Documents from Architect, Town Hall, Luton. Tenders by April 11.

Lutterworth, Leics.—External painting of 169 council houses situated in five parishes, for R.D.C. Documents from Clerk of the Council, Council Offices, Lutterworth, Rugby. Tenders by April 4.

Macclesfield, Ches.—Improvements to cattle market, for B.C.: (1) The supply and erection of three open lean-to roof structures of steel frame and asbestos cement roofing, containing in all approx. 5,000 super. ft.; (2) the supply only of additional tubular steel cattle, pig and calf penning. Documents from the Architect, 3 Jordangate, Macclesfield. Tenders by April 11.

Manchester.—Supply and fixing of suspended ceilings at Moston College for Further Education, for City Council. Documents from Architect, P.O. Box 488, Town Hall, Manchester. Tenders by April 6.

Margate, Kent.—Plumbing work in 48 prewar council houses, for B.C. Documents from Engineer, 38 Grosvenor Place, Margate. Tenders by April 9.

Merthyr Tydfil, Glam.—Eighty traditional type garages at Gurnos estate, for B.C. Documents from Architect, Town Hall, Merthyr Tydfil. Deposit £2 2s. Tenders by April 1.

Mitcham, Surrey.—External painting of the following, for B.C.: Glebe I—102 flats in four blocks, four seven-storeys; Short Bolstead I and II—131 houses and two-storey flats Cedars—30 houses; Pollards Hill—324 flats in seven blocks, four-storey and six-storey. Documents from the Surveyor, Town Hall, Mitcham. Tenders by April 9.

Montgomeryshire.—Improvements to farm buildings at Cefn-y-Berrin Isaf, Sarn, for C.C. Documents from D. A. Cresswell, county land agent, County Offices, Welshpool. Tenders by March 28.

Montgomeryshire.—Erection of two new cowhouses and milk rooms at Caer Rhyd and Longlands, Hendomen, Montgomery, for C.C. Documents from D. A. Cresswell, county land agent, County Offices, Welshpool. Tenders by April 11.

Morley, Yorks. —External repainting to the following Corporation houses, for B.C.: (Section 1) Woollin Avenue, West Ardsley, 62; (2) Garden House Lane extension (part two), 82; (3) Garden House Lane extension (part three), 80; (4) Old Hall estate, Tingley, 96; (5) Bradford Road, East Ardsley, 30; (6) Albert Road estate, Morley, 68; (7) Corporate properties (small lots in all areas) 65 houses and shops. Documents from Borough Engineer's Office, Town Hall, Morley. Tenders by April 11.

Nantwich, Ches.—Erection of public conveniences at the corner of Moorfields and Wistaston Road, Willaston, for R.D.C. Documents from the Surveyor, Stapeley House, Nantwich. Deposit £2 2s. Tenders by April 4.

Newcastle-under-Lyme, Staffs.—Erection of Cross Heath Church of England Replacement School, for B.C. The principal accommodation comprises assembly hall, kitchen, staff accommodation and three classrooms, having a total floor area of approximately 7,000 sq. ft. Construction is of cross walls with a timber roof and with timber windows having metal opening lights. Applications to the Surveyor, Lancaster Building, High Street, Newcastle, by April 4. Deposit £2 notes.

Newcastle upon Tyne.—Internal and external painting of various schools, caretakers' houses, school meals kitchens and medical clinics, for E.C. Applications to H. V. Lightfoot, director of Education, City Education Office, Northumberland Road, Newcastle upon Tyne, 1, by March 26.

***Newcastle upon Tyne.**—Construction of single-storey pavilion at King George V playing field, for City Council. Tenders by April 11.

Newmarket, Cambs.—Exterior painting and minor repairs to Stratford House, Newmarket, for U.D.C. Documents from P. D. Lees, architect, Council Offices, Severals House, Newmarket. Tenders by March 31.

***Newtown and Llanllwchaiarn, Monts.**—Erection of new sale ring and extensions, for U.D.C. Deposit £2 2s. Tenders by April 20.

***North Cotswold, Glos.**—Building works to various houses, for R.D.C. Tenders by April 11.

Oswaldtwistle, Lancs.—External repainting of 87 dwellings on housing estates, for U.D.C. The work is in three contracts of 21, 32 and 34 dwellings respectively. Documents from J. R. Johnston, engineer and surveyor, Town Hall, Union Road, Oswaldtwistle. Tenders by April 6.

Pewsey, Wilts.—Modernisation of eight prewar houses at Pennings Road, North Tidworth, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Pewsey. Tenders by April 1.

***Portland, Dorset.**—Provision of 22 garages, for U.D.C. Tenders by April 2.

Portsmouth.—External painting of Council houses and flats, for City Council. Applications to the Director of Housing, 1 Clarence Parade, Southsea, by March 26.

Ploughley, Oxon.—Erection of 13 garages, Cherwell Estate, Kidlington, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Waverley House, Queen's Avenue, Bicester. Deposit £1 1s. Tenders by April 1.

Radcliffe, Lancs.—Painting Lomax Street footbridge, for B.C. Written applications to the Borough Engineer and Surveyor, Town Hall, Radcliffe. Tenders by April 4.

Ramsey, Hunts.—External painting of 100 Council houses at Ramsey, Ramsey St. Mary's Ramsey Mereside and Forty Foot Bridge, for U.D.C. Documents from the Surveyor, Council Offices, 3 Bury Road, Ramsey. Tenders by April 4.

Rugby, War.—External painting of 294 Council houses located in 17 villages, for R.D.C. Documents from Surveyor, 16 Warwick Street, Rugby. Tenders by April 8.

Settle, Yorks.—Erection of public conveniences, for R.D.C. Documents from the Council's Engineer, Town Hall, Settle. Deposit £2 2s. Tenders by April 25.

Shepshed, Leics. — Exterior painting of houses on various estates, as follows, for U.D.C.: (Contract 1) 78 houses, (2) 124 houses and flats; (3) 14 houses. Documents from the Surveyor, Council Offices, Charnwood Road, Shepshed. Deposit £1 1s. each contract. Tenders by April 11.

Southborough, Kent. — Erection of 20 garages at Broomhill Park Road and the construction of an access road, for U.D.C. Documents from Howes and Jackman, architects, 1 Verulam Buildings, Grays Inn, London, W.C.1. Deposit £2 2s. Tenders by April 4.

Southborough, Kent. — Erection of 20 garages at Broomhill Park Road, and the construction of an access road, for U.D.C. Documents from Howes and Jackman, architects, 1 Verulam Buildings, Gray's Inn, London, W.C.1. Deposit £2 2s. Tenders by April 4.

Staffordshire.—External pointing and repairs of the following smallholdings schemes, for C.C.: (1) Yarlet (I.) scheme, Stone Road, near Stone (12 sets); (2) Rodbaston scheme, near Pankridge (15 sets). Documents from the County Estate Agent, County Buildings, Martin Street, Stafford. Deposit £1 1s. Tenders by April 4.

Stonehaven, Wigtowns.—Mason, joiner, plumber, lath and plaster, electrical and painter and glazier works for the conversion into offices of the existing property 16-24 Allardice Street, for B.C. Documents from the Town Clerk, 26 Cameron Street, Stonehaven. Plans also seen at the offices of the Surveyor, 12 Ann Street, Stonehaven, or at the office of Leo Durnin, 252 Union Street, Aberdeen. Tenders by April 5.

Stroud, Glos.—Exterior painting of 98 houses at Orchard Road, Ebley, for U.D.C. Documents from H. S. Gibbons, clerk of the Council, Council Chambers, High Street, Stroud. Tenders by April 2.

Swaffham, Norfolk.—External painting of 214 houses situated in various parts of the district, for R.D.C. Documents from J. S. Burton, clerk, Council Offices, Market Place, Swaffham. Deposit £1 1s. Tenders by April 2.

Towcester, Northants. — Following, for R.D.C.: Contract 10—10 houses, Bridge Road, Cosgrove, two houses, Deanshanger Road, Old Stratford, rearrangement of sculleries and bathrooms with rebuilding as required, plastering of sculleries and bathrooms, provision of new grates with hot and cold water storage with supplies to new baths, lavatory basins and sinks with redecorations as necessary; contract 11—12 houses, 3-25 Puxley Road, Deanshanger, partial demolition of sculleries and w.c.s, rebuilding same with addition of store and fuel space and alterations to existing drainage, plastering of sculleries and bathrooms, provision of new grates with hot and cold water storage with supplies to new sink, bath and lavatory including redecorations as necessary; contract 12—12 houses, 10-32 Puxley Road, Deanshanger, partial demolition of sculleries and w.c.s, rebuilding same with addition of store and fuel spaces and alterations to existing drainage, plastering of sculleries and bathrooms, provision of new grates with hot and cold water storage with supplies to new sink, bath and lavatory including redecorations as necessary, contract 13—12 houses, 36-58 Folly Road, Deanshanger, partial demolition of sculleries and w.c.s, rebuilding same with addition of store and fuel space and alterations to existing drainage, plastering of sculleries and bathrooms, provision of new grates with hot and cold water storage with supplies to new sink and lavatory including redecorations as necessary. Documents from Geo. Berridge, surveyor, 163 Watling Street West, Towcester. Deposit £2 2s. each contract. Tenders by April 4.

Ventnor, I. of W.—External decorations of the Winter Gardens, for U.D.C. Documents from the Council's Surveyor, Salisbury Gardens, Ventnor. Tenders by March 30.

Wakefield, Yorks.—External repainting of 410 houses and bungalows on various estates, for R.D.C. Documents from the office of the Engineer and Surveyor, Council Offices, 18 St. John's North, Wakefield. Tenders by April 9.

Wallasey, Ches.—External painting of 886 dwellings and 10 garages, for B.C. Documents from the Borough Architect, Town Hall, Wallasey. Tenders by April 21.

Wellingborough, Northants. — External painting of Council houses in various parishes, for R.D.C.: (Contract 239) 12 houses Allen's Hill; 16 houses, Harrold Road; 11 houses, Roberts Street; nine houses, Mill Road, Bozeat; and four houses, Easton Maudit. (240) Seven houses, Doddington Road; 17 houses, Station Road; six houses, High Street; 20 houses, Prince Street / Manor Road; two houses, Whitworth Crescent, Earls Barton. (241) Twelve houses, West Street, Ecton; four houses, Wellingborough Road, Mears Ashby; 18 houses, Main Road, Wilby. (242) Twenty-two houses, Westfields; 16 houses, Hardwick Road; 10 houses, Orlingbury Road, Little Harrowden; and six houses, Church Street, Isham. Documents from C. L. Hanwell, surveyor, Rural Council Offices, 20 Oxford Street, Wellingborough. Deposit £1 1s. Tenders by April 2.

Wells-next-the-Sea, Norfolk.—Painting of the following houses, etc., on the Council's housing estates, for U.D.C.: Ten bungalows, Northfield Crescent; 10 temporary bungalows, Knitting Needle Lane; six bungalows, Northfield Lane; 10 blocks of four flats, Northfield estate; 12 Airey houses, Northfield estate; 24 houses, Mill Road and Park Road. Documents from W. W. Pointer, clerk, Council Offices, Wells-next-the-Sea. Tenders by April 4.

Welwyn, Herts.—Erection of 16 traditional garages with tarmac forecourt at Queensway estate, for R.D.C. Documents from the Surveyor, Council Offices, Welwyn, Herts. Deposit £2 2s. Tenders by April 6.

West Riding.—Internal and external painting at Menston County School, for C.C. Documents from the Divisional Educational Officer, Barcroft New Road, Yeadon. Tenders by March 28.

West Riding.—Renewal of appliance room floor at the County Fire Station, Market Street, Mexborough, for C.C. Applications to the Divisional Architect, Planet Road, Adwick-le-Street, near Doncaster, by March 28. Tenders by April 11.

West Riding.—Following, for C.C.: Internal and external painting at Hensall, Stainforth Junction Road, Goole, Old Goole and Goole Boothferry Road Schools. Documents from J. H. Crabtree, divisional education officer, Goole. Tenders by April 8.

West Riding.—Following, for C.C.: Ossett, Horbury and Wakefield Rural District Schools; Rothwell and Stanley area schools—internal and external painting; Ossett Holy Trinity C.E.; Outwood C.P.; Rothwell C.P.—renewal of floors (hardwood); Newton Hill C.P.; Outwood C.P.; Ossett Gawthorpe C.P.; Rothwell Carlton C.P.—resurfacing playgrounds. Documents from H. Thorpe, 8 St. John's North, Wakefield. Tenders by March 30.

West Riding.—Following, for C.C.: (a) Renewal of plaster ceilings with Celotex in specified rooms; (b) renewal of plaster ceilings with plaster in specified rooms. To be carried out at the Ilkley Grammar School. Documents from C. Anderson, clerk to the Governors, Education Offices, Barcroft, Yeadon. Tenders by April 6.

West Riding.—Forming parking accommodation and access at Dinnington Chelmsford Technical College, for C.C. Applications to Divisional Architect, Planet Road, Adwick-le-Street, near Doncaster, by April 4. Tenders by April 25.

Whitworth, Lancs.—External painting of 115 houses on various housing estates, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, Whitworth. Tenders by April 9.

CLOTHING AND TEXTILES

Caernarvonshire.—Supply of canvas hose and uniforms conforming to Home Office specifications, for C.C. Documents from Chief Fire Officer, County Offices, Caernarvon. Tenders by April 11.

Huddersfield.—Supply of the following, for Corporation Passenger Transport Department: Uniforms, caps, inspectors' overcoats. Documents from the Passenger Transport Manager, John William Street, Huddersfield. Tenders by April 5.

Rotherham, Yorks.—Supply of police uniform for the year 1960, for B.C. Documents from the Chief Constable, Borough Police Office, Frederick Street, Rotherham. Tenders by April 9.

Sheffield.—Following from May 1, 1960, for City Council: Uniform clothing workmen's protective clothing and overalls. Documents from the Town Clerk, Town Hall, Sheffield Tenders by April 1.

DEMOLITION

Halesowen, Worcs.—Demolition of following, for B.C. 70, 72 and 74 Intended Street, Cradley; 1 Barrack Lane, Cradley; workshop at rear of 20 and 22 Hagley Road, and 69, 71 and 73 Stourbridge Road. Documents from the Borough Engineer and Surveyor, Council House, Halesowen. Deposit £2 2s. Tenders by April 4.

Hull.—Demolition and removal of several wooden huts situated at the western end of Queen's Gardens and adjoining Dock Street, for City Council. The huts can be inspected on application to the Civil Defence Officer, between the hours of 9.30 a.m. to 12 noon and 2 p.m. to 5 p.m., Mondays to Fridays. Documents from the Treasure (Estate and Valuation Section), Room 29, Guildhall, Kingston-upon-Hull. Tenders by April 1.

Todmorden, Yorks.—Demolition of dwelling houses 2 and 3, Knotts Road, Todmorden, for B.C. Documents from Borough Engineer, Municipal Offices, Todmorden. Deposit £1. Tenders by March 28.

Upton-upon-Severn, Worcs.—Demolition of 82 and 83 Beauchamp Lane, Callow End, for R.D.C. Documents from the Public Health Inspector, Council Offices, Upton-upon-Severn. Tenders by April 4.

ELECTRICAL

Armagh.—Following at the proposed Tandragee Intermediate School, for County Education Committee: (a) Electrical installation; (b) plumbing and heating installation. Documents from J. R. W. Murland, engineer, 13 Wellington Place, Belfast. Deposit £3 3s. each contract. Tenders by April 12.

Ashby-de-la-Zouch, Leics.—Supply and installation of fluorescent lighting fittings and ancillary works at the Council Offices, South Street, for R.D.C. Documents from C. S. Curtis, surveyor, Council Offices, South Street, Ashby-de-la-Zouch.

Bentley-with-Arksey, Yorks.—Electrical installation of 23 bungalows, Redbourne Road, Bentley, for U.D.C. Documents from the Surveyor, Council Offices, Cooke Street, Bentley, Doncaster. Deposit £1 1s. Tenders by April 11.

Hereford.—Electrical installation to 10 detached and two semi-detached houses on Green Lane site section 4, Hereford, for City Council. Documents from City Architect, Town Hall, Hereford. Deposit £1 1s. Tenders by April 4.

Londonderry. — Electrical installations in two sanitary blocks at Coast Road Caravan Site, Portstewart, for C.C. Documents from W. and M. Given, engineers, 1 Waterside, Coleraine. Deposit £2 2s. Tenders by April 1.

Manchester. — Electrical installation to sports pavilion, River Mersey playing fields, for City Council. Documents from the City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by March 31.

Manchester.—Electrical installations at the following, for City Council: (Contract 222G) Ridgway Street, five maisonnettes and four shops; (329) Partington, 117 dwellings. Documents from the Director of Housing, Town Hall, Manchester, 2. Tenders by March 30.

Margate, Kent.—Electrical installation at the proposed library at Westgate, for B.C. Documents from Engineer, 38 Grosvenor Place, Margate. Tenders by April 9.

FENCING

***Chigwell, Essex.**—Refencing at various sites for U.D.C. Deposit £1 1s. Tenders by April 5.

Kidderminster, Worcs.—Supply and erection of the following types and approx. quantities of fencing, for B.C.: 525 lin. yd. galvanised chain link fencing with concrete posts; 215 lin. yd. concrete palisade fencing; 95 lin. yd. exposed aggregate concrete panel fencing with concrete posts; 225 lin. yd. wire pig fencing with oak posts. Documents from the Surveyor, 110 Mill Street, Kidderminster. Deposit £1 1s. Tenders by April 4.

Kingston-upon-Thames, Surrey.—Supply and erection of close boarded fence on concrete posts to the crematorium garden of remembrance, for B.C. Documents from Surveyor, Guildhall, Kingston-upon-Thames. Deposit £2 2s. Tenders by March 29.

Rickmansworth, Herts.—Erection of chain link fencing ranging from 3ft. 6in. to 6ft. in

height, approximate lineal measurement 1,150yd. together with a small amount of in-situ concrete pathway on the Council's housing estates at Croxley Green and Mill End, for U.D.C. Documents from Surveyor, Council Offices, Rickmansworth. Deposit £2 2s. Tenders by March 31.

GAS AND WATER SUPPLY

Blackburn, Lancs.—Erection of a rapid-gravity filtration plant of 10 m.g.d. rated capacity adjacent to the Fishmoor Reservoir, for Fylde Water Board. Applications to Frank Law, engineer to the Board, Sefton Street, Blackpool, by April 8. Tenders by July 8.

***Blackpool.**—Supply of water meters, for Fylde Water Board. Tenders by April 12.

***Breconshire.**—Water supply works stage three, for Builth and District Water Board. Deposit £5 5s. Tenders by May 6.

Brighton, Sussex.—Sinking and test pumping maximum of four 8in. diameter and one 18in. diameter boreholes at Southerham Farm, near Lewes, for B.C. Documents from the Chief Engineer, Waterworks Department, 12 Bond Street, Brighton. Deposit £2 2s. Tenders by April 4.

Bullingdon, Oxon.—Water supply scheme, including six miles of mains, 7in. to 3in. diameter, and other works, for R.D.C. Applications to J. E. Busfield, surveyor, 76 Banbury Road, Oxford, by March 31.

Cemaes, Cards.—Tegryn water supply improvement scheme, for R.D.C. Construction of limestone contact tanks and pump house with the provision and installation of electrically driven pumping and chlorinating plants complete, together with short length of 1½in. diameter asbestos-cement pipes with connections to existing mains. All the works are situated near the existing springs and pump house at Llangenau Fawr Farm, Tegryn, near Crymmych, Pemb. Documents from J. Owen Parry and Lewis, engineers, Arcade Chambers, Ammanford. Deposit £3 3s. Tenders by April 12.

Cheadle, Staffs.—Cheddleton water scheme. Proposed 4in. diameter water main extension at Winterfield Lane, contract 309, for R.D.C. Laying of approx. 1,370 lin. yd. of 4in. dia. cast-iron water main with Tyton joints, together with ancillary works. Documents from the Engineer and Surveyor, Council Offices, Leek Road, Cheadle. Deposit £5. Tenders by April 20.

***Chesham, Bucks.** — Water main from Taylor's Farm to Codmore Cross, for U.D.C. Tenders by April 8.

Clun, Salop.—Chirbury, Marton and Bent Lont water supply scheme, for R.D.C., comprising construction of about 40,000 lin. yd. of asbestos-cement water mains, 2in., 3in. and 4in. in diameter, about 5,000 lin. yd. of smaller diameter water mains, three reinforced concrete service reservoirs and incidental works. Documents from H. A. Elliott, clerk of the Council, Rural District Council Offices, The Square, Bishop's Castle. Deposit £5 5s. Plans also seen at the offices of the consulting engineers, A. H. S. Waters and Partners, 25 Temple Row, Birmingham, 2. Tenders by April 1.

Downpatrick, Down.—Water extensions, contract 9, for R.D.C. Supply and setting to work of two submersible booster pumps to deliver 1,000 gallons per hour against a static head of 230ft. through a 3in. diameter water main. Documents from Munce and Kennedy, engineers, 133 University Street, Belfast, 7. Tenders by April 4.

***Ellesmere, Salop.**—Water supply to the parish of Myddle, contract 2, for R.D.C. Deposit £5 5s. Tenders by April 22.

***Exmouth.**—Extensions at Dotton pumping station, contract G, for U.D.C. Deposit £5 5s. Tenders by April 14.

Hillsborough, Down.—Supplying and laying of the following approximate lengths of spun-iron pipes together with all ancillary works, for R.D.C.: 2in. diameter—80 lin. yd.; 3in. diameter—18,400 lin. yd.; 4in. diameter—1,900 lin.. yd.; 5in. diameter—1,000 lin. yd.; 6in. diameter—1,700 lin. yd. Documents from William Barklie Maxwell, engineer, 5 University Terrace, Belfast, 7. Deposit £5 5s. cheques payable to R.D.C. Tenders by April 11.

Newport, Mon.—Following, for B.C.: Laying across fields and agricultural land of nine miles of 36in. diameter steel pipes, and the construction of valve chambers, etc., to carry industrial water to the Spencer Works of Richard Thomas and Baldwins, Ltd., at Llanwern. Documents from the Water Engineer, High Street, Newport. Deposit £5 5s. Tenders by April 8.

***New Radnor, Radnors.** — Franksbridge water supply, for R.D.C. Deposit £10 10s., cheques payable to R.D.C. Tenders by May 2.

Padiham, Lancs.—Construction of a cavaliers service reservoir, together with a house to accommodate micro-straining plant, chlorination equipment, etc., contract e, for U.D.C., comprising the construction of a reservoir, circular in plan, having mass concrete wall and reinforced concrete floor, columns and roof, the building of a micro-straining house having precast concrete and brick walls with reinforced concrete foundations, floor and roof, and the installation and putting to work of micro-straining plant, chlorination equipment and all ancillary works, etc. Documents from G. H. Hill and Sons (Manchester), civil engineer, 51 Mosley Street, Manchester, 2. Deposit £5 5s. Tenders by April 23.

***Startforth, Yorks.** — Construction of a reservoir, contract A, for R.D.C. Deposit £5 5s., payable to R.D.C. Tenders by April 20.

***Startforth, Yorks.**—Supply pumping plant, contract B, for R.D.C. Tenders by April 20.

***Wakefield.**—Manshead tunnel scheme, for City Council. Apply by April 4.

***Warwick.**—Old Milverton water scheme for R.D.C. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by April 4.

***Yeovil, Som.**—Laying of water main from Lufton to Larkhill, for R.D.C. Deposit £2 2s., cheques payable to R.D.C. Tenders by April 7.

HARBOURS, PIERS AND SEA DEFENCE WORKS

North Shields, Northumb.—Repair and strengthening of the Tyne Commission Quay, Albert Edward Dock, for Tyne Improvement Commission. Consisting of repairing by cement gunning defective reinforced concrete and strengthening reinforced concrete crane beams by cement gunning or by the use of precast reinforced concrete haunch units. Documents from R. N. Eggleton, secretary, Tyne Improvement Commission, Bewick Street, Newcastle upon Tyne, 1. Deposit £3 3s. Tenders by April 25.

HEATING AND VENTILATING

Belfast.—Installation of new low pressure hot water heating accelerator at Hillman Primary School, Upper Meadow Street, for City Council. Documents from the Education Architect, 40 Academy Street, Belfast, 1. Tenders by April 7.

Belfast.—Renewal of existing low pressure hot water heating boiler at Carr's Glen Primary School, Oldpark Road, for City Council. Documents from the Education Architect, 40 Academy Street, Belfast, 1. Tenders by April 7.

Belfast.—Following, for City Council: (1) Heating and ventilation installations; (2) plumbing installation at new Production Engineering and Metrology Laboratory, College of Technology, College Square East. Documents from the Education Architect, 40 Academy Street, Belfast, 1. Tenders by April 7.

***Birmingham.**—Installation of central heating and hot water supply, for City Council. Deposit £2 2s., cheques payable to Surveyor. Tenders by April 8.

Draperstown, Londonderry.—(1) Heating (low pressure hot water); (2) plumbing and (3) electrical installation for new Voluntary Primary School at Draperstown, for the Very Rev. M. Collins. Documents from M. A. Fitzpatrick, architect and surveyor, Strand Chambers, 16-18 Strand Road, Londonderry. Deposit £3 3s. (cheque) each installation. Tenders by April 11.

Hoddesdon, Herts.—Installation of Ascot water heaters, lavatory basins and other incidental works to 50 houses, for U.D.C. Documents from the Housing Manager, Council Offices, Hoddesdon.

Kirkcaldy, Fifes.—Following at the proposed Nurses' Training Unit of the Victoria Hospital, for the South-Eastern Regional Hospital Board.: (a) Alterations to low pressure hot water heating system, primary dual hot water system installation, and pipework insulation; (b) new secondary domestic hot water installation. Written applications to the Secretary 11 Drumsheugh Gardens, Edinburgh, 3, by March 28.

HOUSING SCHEMES

Abingdon, Berks.—Erection of six traditional two-storey flats with site works on the east side of West St. Helen Street, Abingdon, for B.C. Documents from Town Clerk, The Abbey House, Abingdon. Tenders by April 8.

Belfast.—Two tower blocks of flats each 13 storeys in height at the North Queen Street development scheme (Victoria Barracks), for City Council. Applications to John Dunlop, town clerk, P.O. Box 234, City Hall, Belfast, 1, by March 28.

***Caistor, Lincs.**—Eight dwellings, for R.D.C. Deposit £3 3s. Tenders by April 8.

Carlisle. — One hundred dwellings at Morton estate, for City Council. Documents from the Surveyor, 18 Fisher Street, Carlisle. Tenders by April 11.

Carmarthen.—Four three-bedroomed houses at Lon-y-Prior, Saint Clears, for R.D.C. Documents from G. G. Thompson, surveyor, 3 Spilman Street, Carmarthen. Deposit £1. Tenders by March 30.

Congleton, Ches.—Thirty-eight three-bedroom type and 20 two-bedroom type houses at Buglawton estate, for B.C. Documents from the Borough Engineer, Market Place, Congleton. Deposit £2. Tenders by April 2.

Cudworth, Yorks.—Erection and completion of six blocks of four two-storey, one- and two-bedroom flats on the Darfield Road housing site, for U.D.C. Documents from the office of the Engineer and Surveyor, Council Offices, Barnsley Road, Cudworth. Deposit £2 2s. Tenders by April 9.

Denton, Lancs.—Following, for U.D.C.: 264 housing units (four schemes): various public buildings—Town Hall, library, cemetery offices and chapel, shelters, conveniences, street lamps, etc. Documents from the Surveyor, Town Hall, Denton. Deposit £2 2s., payable to U.D.C. Tenders by March 31.

Driffield, Yorks.—Forty-three houses on one site and a block of four bungalows on another site within the urban district, for U.D.C. Applications to Allen Hornby, clerk, Council Offices, Eastgate South, Driffield, by March 31.

Dufftown, Banffs.—Block of four houses at Back/Fife Street, redevelopment, for B.C. W. Ashley Bartlam, architect, 41 Moss Street, Elgin. Tenders by March 31.

Dundee.—One hundred and fifty-two houses, comprising Craigie housing scheme (fifth development), for B.C. Documents from the Quantity Surveyor, 21 City Square, Dundee. Tenders by March 30.

East Kesteven, Lincs.—Four traditional houses and two traditional bungalows at Leasingham, for R.D.C. Documents from the Architect, Council Offices, 14 Northgate, Sleaford. Tenders by April 2.

***East Retford, Notts.**—Erection of six old people's dwellings, for B.C. Deposit £2 2s. cheques payable to Corporation. Tenders by April 9.

***Ellesmere Port, Ches.** — Two-storey flats, Grafton Road, contract 274, for B.C. Tenders by April 11.

Exmouth, Devon.—Fourteen semi-detached houses, with 14 garages and 18 old people's bungalows at Nutbrook and Burnside site, Withycombe village, for U.D.C. Documents from R. J. Humphreys, surveyor, Templetown Lodge, Esplanade, Exmouth. Deposit £2 2s. Tenders by March 29.

Haverfordwest, Pembs. — Following, for R.D.C.: (a) Simpson Cross 2 housing site—two bungalows, together with site works; (b) Herbrandston garage site—erection of four garages, together with site works; (c) Letterston garage site — erection of four garages, together with site works; (d) Rosemarket garage site—erection of four garages, together with site works. Documents from the Surveyor, Council Offices, 8-10 Picton Place, Haverfordwest. Tenders by April 11.

Liskeard, Corn.—Following dwellings together with the normal ancillary works, for R.D.C.: Polruan, two one-bedroom bungalows at Furze Park; Bodinnick, two one-bedroom bungalows and two two-bedroom houses at Hall Terrace. Documents from Higman and Ford, architects, 2 The Parade, Liskeard. Deposit £1 1s. (Polruan); £2 2s. (Bodinnick), cheques payable to R.D.C. Tenders by April 8.

Louth, Lincs.—One pair of two-bedroom bungalows at Theddlethorpe St. Helen, including site works, drainage system, etc., for R.D.C. Documents from G. R. A. Mack, Council architect, 2 New Street, Louth. Deposit £3 3s. Tenders by March 31.

Martley, Worcs.—Eight one-bedroom bungalows on the following sites, for R.D.C.: Martley four; Great Witley two; Astley two. Documents from the Engineer and Surveyor, 1 The Tything, Worcester. Tenders by April 11.

***Newhaven, Sussex.** — Houses, bungalows, garages, etc., for U.D.C. Tenders by April 28.

Oundle and Thrapston, Northants.—Site-works and first instalment of 24 traditional dwellings and suite of nine lock-up garages, etc., Warmington, for R.D.C. Applications to H. G. Kenyon, architect, Council Offices, Midland Road, Thrapston, Kettering, by March 26. Deposit £3 3s.

Godstone, Surrey.—Four blocks of 12 units total in two storeys, at South Nutfield, for R.D.C., comprising one block of four flats, two blocks each of three houses, and one pair of houses. Documents from Surveyor, Council Offices, Oxted. Deposit £2 2s. Tenders by April 6.

Glasgow.—Four hundred houses, mainly cross-over maisonnettes, in two 20-storey blocks, for B.C. The construction will be of in-situ reinforced concrete cross-walls and floor slabs. The external finishings will be exposed in-situ concrete and large precast concrete exposed aggregate panels. Applica-

tions in writing, to the Architect and Planning Office, 20 Trongate, Glasgow, C.1, by March 28.

Harpenden, Herts. — Twelve permanent traditional-type cottage flats and six traditional-type houses on the Batford (South) housing estate, for U.D.C. The flats will consist of three blocks of semi-detached flats (four flats to each block) and the houses will be in pairs. Documents from Frederick A. Harris, clerk of the Council, Harpenden Hall, Harpenden. Depost £2 2s. Tenders by March 28.

Magherafelt, Londonderry.—Six dwellings at Desertmartin Road, Tobermore, for R.D.C. Documents from W. and M. Given, architects, 1 Waterside, Coleraine, or W. J. M'Kiney, clerk to the Council, Council Offices, Magherafelt. Deposit £3 3s. Tenders by March 31.

Nantwich, Ches.—One block of four one-bedroom bungalows at Park Road, Willaston, for R.D.C. Documents from Surveyor, Stapeley House, Nantwich. Deposit £2 2s. Tenders by April 4.

Peterborough.—Thirty-two flats on Welland Road, for City Council. Documents from Engineer, Town Hall, Peterborough. Deposit £2. Tenders by April 11.

Pewsey, Wilts.—Twelve houses and the construction of main siteworks at Dewey's Lane, Ludgershall, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Pewsey. Tenders by April 13.

Ploughley, Oxon. — Four pairs of bungalows and roadworks at Valentia Close, Bletchingdon, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Waverley House, Queen's Avenue, Bicester. Deposit £2 2s. Tenders by April 1.

Poole, Dorset. — Thirty-four houses at Turlin Moor estate (contract T.M.5), for B.C. Applications to the Borough Engineer, Council Offices, Poole, by March 19. Deposit £2 2s. Tenders by April 11.

Portadown, Armagh.—Construction of a terrace of eight single-bedroom bungalows (in two types), together with certain ancillary works, at the Park Road housing scheme, for B.C. Documents from the Architect and Planning Officer, Tavanagh House, Thomas Street, Portadown. Deposit £3 9s. Tenders by April 14.

Reading, Berks.—One hundred and eighteen dwellings and 52 garages, Bulmershe estate, for B.C. Documents from the Borough Architect, Town Hall, Reading. Deposit £2 2s. Tenders by April 8.

Rushden, Northants.—Thirty-eight houses at Grafton Road site, for U.D.C. Documents from the Surveyor, Council Offices, Rushden. Tenders by April 4.

St. Germans, Corn.—Erection of two pairs of two-bedroom type houses in West Street, Millbrook, for R.D.C. Documents from the Surveyor, Council Offices, Lower Port View, Saltash. Deposit £2 2s. Tenders by April 6.

Saffron Walden, Essex.—Four flats at Wimbish, for R.D.C. Documents from the Clerk, Council Offices, Debden Road, Saffron Walden. Tenders by April 9.

***Scarborough, Yorks.**—Forty-eight flats at Manham Hill, for B.C. Deposit £2 2s. Tenders by April 11.

Sevenoaks, Kent.—Three pairs of three-bedroom houses, one block of four three-bedroom houses and two blocks of four ageing persons' flats on the Crouch House Lane site, for R.D.C. Documents from the Surveyor, Inglewood, Oak Hill Road, Sevenoaks. Deposit £2 2s. Tenders by March 29.

Sidmouth, Devon.—Twenty-four flats in two three-storey blocks at Lymebourne Park, for U.D.C. Applications to Eric G. Howarth, clerk, Council Offices, Sidmouth, by April 2. Deposit £3 3s.

Southwell, Notts.—Four pairs of bungalows off Abbey Road, Edwinstowe, for R.D.C. Documents from M. England, architect, 7 Westgate, Southwell. Deposit £2 2s. (cheques payable to R.D.C.). Tenders by April 11.

Stone, Staffs.—Following, for R.D.C.: Four houses and four bungalows at Copmere, near Eccleshall; two bungalows at Fulford; four garages at Moss Gate; two garages at Rough Close; two garages at Standon. Documents from Hollins, Jones and Oldacre, architects, Lloyds Bank Chambers, Newcastle. Deposit £2 cheque.

Stroud, Glos. — Following, for U.D.C.: One hundred and eight single-bedroom flats in six three-storey blocks; 29 three-bedroom houses; 25 old people's bungalows; one communal hall and warden's flats; two shops each with three-bedroom flat over; 30 garages. Complete with outbuildings, services, footpaths and fences, on the Lower Farmhill site, Paganhill. Applications to H. S. Gibbons, clerk to the Council, Council Chambers, High Street, Stroud. Deposit £5 5s., payable to U.D.C. Plans also seen at the offices of I. M. Williams, architect, Claremont House, 67 Montpellier Terrace, Cheltenham. Tenders by April 2.

***Swadlincote, Derbys.**—Fifty-eight dwellings at Abbotts Farm housing estate, Newhall, for U.D.C. Deposit £2 2s. Tenders by April 25.

Walsingham, Norfolk.—Following, for R.D.C.: Erection of three bungalows, demolition of cottages and erection of six bungalows at Stibbard Wighton. Documents from Dewing and Herriott, architects, 4 Princes Street, Norwich. Deposit £2 2s. Tenders by April 6.

***Warwick.**—Houses and bungalows, Percy estate, central area site A. for B.C. Deposit £2 2s. Tenders by April 15.

***Worcester.**—Erection of 18 dwellings, for City Council. Deposit £3 3s., cheques payable to Corporation. Tenders by April 19.

MATERIALS AND SUPPLIES

Aspull, Lancs. — Supply of the following materials for the year ending March 31, 1961, for U.D.C.: (1) Concrete kerbs and flags; (2) tarred and bituminous macadam; (3) cold asphalt; (4) ashes. Documents from the Acting Engineer and Surveyor, Council Offices, Aspull. Tenders by March 28.

***Bedworth, War.**—Supply of materials, for U.D.C. Tenders by March 31.

Belfast.—Supply and delivery of 1,500 tons crushed rock salt for snow clearance work, for City Council. Documents from the Transport Department, Sandy Row Depot, Belfast. Tenders by March 29.

Belfast. — Following, for City Council: Brass and copper fittings, etc.; casks, drums, etc.; cast-iron pipes and fitings; compo pipe; firebricks for water gas plant; firebricks for vertical retorts; flexible metallic tubes; gas lamps and fittings; gas mantles; hardwood; iron castings; leadless split collars; millfurnishings; purifier grids; rack and pinion valves; service tubes and fittings; spare parts for vertical retorts; sulphuric acid. Documents from the College of Technology, College Square East, Belfast, 1. Tenders by April 13.

Coatbridge, Lanarks.—Following during the 12 months ending May 15, 1961, for B.C.: (1) Coated macadam; (2) fine cold asphalt; (3) hot rolled asphalt (supplying and laying); (4) stone and slag chips; (5) concrete flags; (6) bottoming (whinstone and slag); (7) Portland cement; (8) hire of transport and mechanical equipment. Documents from R. E. Normanton, burgh surveyor, Municipal Buildings, Coatbridge. Tenders by March 28.

Enniskillen, Fermanagh. — Following, for R.D.C.: Building, plumbing, cleaning materials, hardware, meters, derv, gas oil, and paraffin, etc., together with maintenance work and materials for repairing floor of Council houses, painting, tarmacadaming, for the year ending March 31, 1961. Documents from Walter Megaw, clerk, Rural Council Offices, Cornagrade, Enniskillen. Tenders by April 1.

Glasgow.—Following, for the year commencing June 1, 1960, for B.C.: (4) Ashes; (5) bricks; (6) cement; (7) cotton waste, dusters, etc.; (8) fireclay goods; (9) granite chips and crushed granite; (10) ironmongery; (11) rock limestone chips; (12) cast-iron manhole frames and covers (triangular type); (13) oils; (14) filled pitch, pitch oil, tar bitumen mixture and emulsified bitumen; (15) sand; (16) shafts and handles; (17) clean metal and tarmacadam; (18) bitumen macadam, fine cold asphalt and bituminous fines; (19) whin kerbstones; (20) lime (for sewage purification); (21) ropes and twines; (22) sulphate of alumina (for sewage purification). Documents from the Office of Public Works (Room 81), City Chambers, Glasgow. Tenders by April 2.

***Haslemere, Surrey.**—Supply of granite chippings, for U.D.C. Tenders by April 2.

Holland.—Supply of 35 by 75ft. lengths of lightweight rubber-lined or rubber-impregnated delivery hose of 2½in. internal diameter, without couplings, for C.C. The hose must be at least equal to the requirements of the Home Office specification JCDD/1/RL (revised April, 1954). Tenders must state earliest date of delivery. Tenders, with samples, must be enclosed in a plain sealed envelope not bearing any mark or name of the sender, endorsed Tender for Fire Hose," and addressed to the Clerk of the County Council, County Hall, Boston, by May 7.

Kincardineshire.—Following for the period May 16, 1960, to May 15, 1961, for C.C.: (1) Asphalt and asphalt surfacing; (2) bituminous macadam and bituminous macadam surfacing; (3) liquid bitumen; (4) spraying with liquid bitumen; (5) rubble bottoming, uncoated road metal, chippings and sand; (6) coal; (7) petrol and fuel oil; (8) lubricating oils. Documents from John Slevin, county clerk, 33 Evan Street, Stonehaven. Tenders by March 29.

***Leeds.**—Supply of road materials, for City Council. Tenders by April 21.

Lewisham.—Supply and delivery of 500 heavy cast-iron gully gratings and frames to the Council's standard pattern, for B.C. Documents from the Engineer, Lewisham Town Hall, London, S.E.6. Tenders by March 29.

***Manchester.**—Supply of road materials, for City Council. Tenders by April 6.

Surbiton, Surrey.—Following for 12 months, commencing July 1, 1960, for B.C.: (1) Coal; (2) coke; (3) cold asphalt; (4) granite concrete paving; (5) lawn cemetery plaques; (6) motor fuels; (7) motor transport; (8) tarred slag; (9) uniforms; (10) window cleaning; (11) maintenance of pedestrian crossing flashing beacons; (12) laying and maintenance of plastic white lines and lettering; (13) supplying and laying hot asphalt; (14) footpath repairs and reinstatements. Documents from R. Thirlway, surveyor, Council Offices, Ewell Road, Surbiton. Tenders by April 4.

Willesden, Middx.—Following for a period of up to 12 months ending March 31, 1961, for B.C.: (1) Electrical cable; (2) electrical conduit; (3) electrical switchgear. Documents from Engineer, Town Hall, Kilburn, London, N.W.6. Tenders by March 30.

PLANT AND MECHANICAL TRANSPORT

Belfast.—Following, for City Council: (1) Two petrol-driven refuse collecting vehicles; (2) diesel refuse collecting vehicle suitable for the collection of 1 or 1¼ cu. yd. containers to British standard specification (capacity of approximately 18 cu. yd.); (3) mechanically propelled gully emptier. Documents from the City Surveyor's Cleansing Section, 16 Ormeau Avenue, Belfast Tenders by April 4.

Breconshire.—Following, for C.C.: (a) Four 7-ton Bedford diesel short wheel base tipping lorries;; (b) two 15cwt. Bedford vans; (c) one Land-Rover; (d) two Massey-Ferguson F.E.35 tractors, complete with Shawnee special industrial loading equipment; (e) two Massey-Ferguson 736 mid-mounted Dynabalance mowers; (f) one Massey-Ferguson 702 tractor, complete with 702 loading equipment and 710 digger; (g) two Benford 5/3½ concrete mixers; (h) two light (70/80 c.f.m.) mobile compressors with equipment; (i) two portable power-operated road breakers; (j) one Twose Somerset verge trimmer; (k) six lightweight aluminium tilts or lorry shelters; (l) one 380/440-V a.c. electric welder. Documents from the Surveyor, Watton Offices, Brecon. Tenders by April 11.

Burton Latimer, Northants.—Supply of an all-steel petrol-driven Karrier Bantam 10 cu. yd. refuse collector, for U.D.C. Vehicle to be painted, lettered and ready for use, Allowance to be made for vehicle now in use. Tenders in plain, sealed envelope, marked "Vehicle" to C. E. Lansom, clerk, Council Offices, Burton Latimer, by Noon, March 29.

Cannock, Staffs.—Supply and installation of two electrically driven horizontal centrifugal pumping sets, together capable of discharging 1,500 g.p.m. of crude sewage against a head of approx. 45ft., for U.D.C. Documents from the Engineer and Surveyor, Council House, The Green, Cannock. Tenders by April 12.

Dunbartonshire. — Following, for C.C.: Supply and delivery of one Shelvoke and Drewry W-type 16/18 cu. yd. fore and aft tipping refuse collection vehicle with double cab for driver and six loaders, and powered by a Perkins P.6 diesel engine, with number plates and painting to instruction. The tender will be subject to fleet users' discount, and offers marked "Tender for Freighter" to Neil Macdonald, sanitary inspector and cleansing superintendent, 124 Bridge Street, Alexandria, by March 30.

***Durham.**—Lartington rapid gravity filtration plant, contracts 97 and 100, for Tees Valley and Cleveland Water Board. Apply, in writing, by April 5. Deposit £5 5s.

East Riding.—Supply and delivery to the East Riding Institute of Agriculture of a Fordson Power Major diesel tractor, a Jones Mark IV automatic twine-tying pick-up baler, and a diesel Land-Rover, for E.C. Documents from the Chief Education Officer, County Hall Beverley. Tenders by April 8.

Gainsborough, Lincs.—Following, for U.D.C.: Supply and delivery of a portable air compressor, capable of continuously supplying about 70 cu. ft. per min. of free air compressed to 100lb. per sq. in, and driven by a diesel engine. A heavy road breaker is to be supplied with the compressor, and air hose and spare breaker steels are to be included. Documents from the Surveyor, Council Offices, Lord Street, Gainsborough. Tenders by April 1.

***Leicestershire.**—Supply of two tractors, for C.C. Tenders by April 7.

Liverpool.—Construction and erection of pumping plant, South Sewage Disposal Works, Gateacre, for City Council. Documents from the Engineer and Surveyor, Municipal Buildings, Liverpool, 2. Tenders by April 2.

Manchester.—Following, for City Council. (a) Four angledozers; (b) two semi-dump vehicles: 7-8 tons; (c) one gully and cesspool emptier; (d) one 30cwt. van; (e) one power-operated platform lifting truck: 20-30 cwt.

Documents from Director of Public Cleansing, Town Hall, Manchester, 2. Tenders by April 4.

Northampton.—Supply of a motor roller, motor truck, grass mowing equipment, etc., for B.C. Documents from Chief Superintendent Kingsthorpe Hall, Northampton. Tenders by April 4.

Peterborough.—Following, for C.C.: (a) One Thames 5-ton diesel lorry; (b) one Fordson Dexta diesel tractor; (c) one 1-ton dumper; (d) one set battery/generator traffic lights; (e) 30 10ft. standard road forms; (f) four street orderly carts; (g) one cold emulsion hand sprayer. Documents from the Surveyor, County Offices, Bridge Street, Peterborough. Tenders by April 4.

Staffordshire.—Birmingham-Preston motorway — Staffordshire contract, section A (Stafford By-pass), for C.C., comprising construction of seven miles of motorway and two-thirds of a mile of dual carriageway link road, the work consists of drainage, excavation, construction of twin 36ft. carriageways and hardshoulders, including 27 concrete bridges of various types. Applications to T. H. Evans, clerk of the County Council, County Buildings, Stafford. Deposit £50. Tenders by May 5.

Thornaby-on-Tees, Yorks.—Supply and delivery of one refuse collection vehicle of 7 cu. yd. capacity, painted to the Council's requirements and delivered to their Depot, for B.C. Tenders in plain sealed envelopes, endorsed Tender for Refuse Collection Vehicle, to A. Stockwell, town clerk, Town Hall, Thornaby-on-Tees, by March 28.

***West Hartlepool, Dur.**—Supply of vehicles A, B and C, for B.C. Tenders by April 6.

PLAYING FIELDS, PARKS, ETC.

***Bristol.**—Preparation of soiling and seeding of amenity areas and grass verges, for City Council. Tenders by April 4.

Denton, Lancs.—Construction of a playing field at Granada Road, for U.D.C., comprising levelling, draining, ashing, soiling and sowing, and other works such as entrance roads, car park, tennis courts, children's playground, and bowling green. Documents from the Engineer and Surveyor, Town Hall, Denton. Deposit £2 2s. payable to U.D.C. Tenders by April 4.

Nantyffylon Glam.—Proposed football field, for the Rugby Football Club, comprising bulk excavation and levelling of approximately 10,000 cu. yd. construction of mass concrete retaining wall and other ancillary works. Documents from the Surveyor's Department, Council Offices, Maesteg. Deposit £3 3s (cheques payable to the Secretary). Tenders by April 4.

Sheringham, Norfolk.—Constructional work of a garden layout of the Grand Leas, for U.D.C. Documents from the Clerk, Council Offices, Sheringham. Tenders by March 30.

Swansea.—Layout of playing fields at Arfryn County Primary School, for B.C. The work involves excavation, filling, grading, drainage, seeding and planting, and all other contingent works over an area of approximately 14,000 sq. yd. Documents from Norman Hopkins, consulting engineer, 78 Mansel Street, Swansea. Deposit £5. Tenders by April 4.

RIVER AND FLOOD PREVENTION WORKS

Kilkeel, Down.—Construction of a mass concrete retaining wall, fencing and other ancillary work in connection with the River Ghann draining scheme at Rostrevor, for R.D.C. Documents from R. Ferguson and S. McIlveen, engineers, 15 College Gardens, Belfast. Deposit £5 5s. Plans also seen at the Council Offices, Kilkeel. Tenlers by April 12.

ROADS, BRIDGES AND SITE WORKS

Alnwick, Northumb.—Construction of roads and sewers, Green Batt area, for U.D.C. Applications to G. Beaty, town surveyor, The Council House, Wagonway Road, Alnwick. Deposit £2 2s., cheques payable to U.D.C.

Antrim.—Widening of first-class road A.2 at Drains Bay, along the sea front, for approximately 150 lin. yd., for C.C. Documents from the Surveyor, County Courthouse, Crumlin Road, Belfast. Deposit £3 3s. Tenders by April 8.

Aspull, Lancs.—Providing and laying 2,850 sq. yd. of hot rolled asphalt on Crawford housing estate, for U.D.C. Documents from Acting Surveyor, Council Offices, Aspull, near Wigan. Tenders by March 29.

Atcham, Salop.—Construction of approx. 1,000 super. yd. of estate service road and footpaths, including drainage, together with incidental works thereto at the housing site, Brompton Lane, Cross Houses, for R.D.C. Sealed tenders endorsed "Tender for Roadworks at Cross Houses" to G. W. Harley, clerk of the Council, Council Offices, 24 St. John's Hill, Shrewsbury, by noon April 1.

Baildon, Yorks.—Making-up of Lucy Hall Drive, for U.D.C. Documents from Surveyor, Town Hall, Baildon. Tenders by April 15.

Bath.—Making-up of The Avenue, for City Council, the principal works to comprise: 490 super. yd. bituminous macadam carriageway, 230 super. yd. bituminous macadam footways, 75 lin. yd. 9in. storm water sewer. Documents from the City and Waterworks Engineer, Guildhall, Bath. Deposit £2 2s. Tenders by March 31.

***Batley, Yorks.**—Reconstruction of parts of trunk road, A.62, for B.C. Tenders by April 12

Belfast. — Resurfacing of playgrounds, etc., in bituminous macadam and repairing flagged quadrangles, at various city schools, for City Council. Documents from the Education Architect, 40 Academy Street, Belfast, 1. Tenders by Aril 7.

Belfast.—Formation of turning space for vehicles at Annadale Grammar School, Annadale Embankment, for City Council Documents from the Education Architect, 40 Academy Street, Belfast, 1. Tenders by April 7.

***Bilston, Staffs.**—Resurfacing of High Street and Millfields Road, for B.C. Deposit £2 2s. Tenders by April 13.

Birmingham.—Construction of roads and footways on Nazareth House estate, Longbridge, for City Council. Documents from Sir Herbert J. Manzoni, surveyor, Civic Centre, Birmingham, 1. Deposit £2 2s., cheques payable to surveyor. Tenders by April 6.

Birmingham.—Surface dressing with hot bitumen of drives, path and playgrounds and the supplying and laying of bitumen limestone macadam and incidental work in the various parks, recreation grounds and cemeteries in the city, for City Council. Applications to the General Manager, Parks Department, Civic Centre, Birmingham, 1, by April 4. Deposit £2 2s. Tenders by April 11.

Berkshire. — Carrying out roadworks between Arnolds Way and Lime Road, for C.C., comprising the construction of about 215yd. of carriageway with footway, surface water drainage, accommodation, and ancillary works. Documents from the Surveyor, Shire Hall, Reading. Deposit £2 2s. Tenders by April 6.

***Bridport, Dorset.**—Roads and sewers Fulbrooks Lane housing site, for B.C. Deposit £2 2s. Tenders by April 23.

Brierley Hill, Staffs.—Surface dressing of about 110,000yd. of carriageway, for U.D.C. Documents from R. H. J. Comber, engineer and surveyor, Civic Buildings, Brierley Hill. Tenders by March 31.

Bromley, Kent. — Tar dressing by pressure spraying tank wagon approximately 50,000 sq. yd. of district roads, for B.C. Documents from the Engineer, Municipal Buildings, Bromley. Tenders by April 8.

***Bromsgrove, Worcs.** — Improvement of Gunner Lane, Rubery, for U.D.C. Deposit £2 2s. Tenders by April 15.

Brighton, Sussex.—Completing the street works at the following, for B.C.: Lustrells Crescent (section III), Saltdean, length 160yd.; Lustrells Crescent (section IV), Saltdean, length 420yd.; Nutley Avenue, Saltdean, length 95yd.; Canfield Close, Saltdean, length approximately 100yd. The works consist of macadam carriageway, surface drainage, kerbing, flag pavements, and incidental works. Documents from D. J. Howe, surveyor, 26-30 King's Road, Brighton. Tenders by April 5.

***Burton-upon-Trent, Staffs.** — Roads and sewers Ferry Street housing site, for B.C. Tenders by April 12.

Bury St. Edmunds, Suffolk.—Making-up and drainage of the Playfield car park, for B.C., comprising the laying of approximately 12,750 sq. yd. of dense tar surfacing, 700 lin. yd. of concrete channel and 350 lin. yd. of 15in. and 12in. diameter surface water sewers. Documents from the Surveyor, Borough Offices, Bury St. Edmunds. Deposit £2 2s. Tenders by April 8.

Caithness. — Supply of bituminous macadam for the period May 16, 1960, to May 15, 1963, for C.C. Documents from the County Surveyor, County Offices, Wick. Tenders by March 31.

***Canterbury, Kent.**—Making-up of Raymond Avenue, for City Council. Tenders by April 4.

Carrickfergus, Antrim.—Following, for B.C.: (a) Surface dressing using hot cut-back bitumen applied in accordance with B.S.S. 1707 (approximate area 25,000 sq. yd.); (b) bitumen macadam wearing courses to B.S.S. 1621 (approximate quantity 850 cu. yd.); (c) asphalt wearing course to B.S.S. 594 (approximate area 5,000 sq. yd.). Documents from Surveyor, Town Hall, Carrickfergus. Tenders by April 4.

Carshalton, Surrey.—Following, for U.D.C.: Stripping approximately 5,000 cu. yd. of top soil on the Carshalton Road tipping site and depositing in spoil heaps on site. Documents from the Surveyor, Stone Court, The Grove, Carshalton. Tenders by April 6.

***Chadderton, Lancs.**—Making-up of three streets, for U.D.C. Deposit £1 1s. Tenders by April 9.

***Chelmsford, Essex.**—Surfacing of Kings Head Meadow car park, second stage, for B.C. Tenders by April 12.

***Cheshire.** — Construction of three-span bridge at Ellesmere Port level crossing, for C.C. Deposit £10 10s. Tenders by April 26.

Chester.—Making-up of Fieldway, Sandileigh and Woodlands Drive, for City Council, comprising scarifying, shaping and surfacing the carriageways, kerbing, surfacing footways, and provision of additional drainage. Documents from the Surveyor, 49 Northgate Street, Chester. Tenders by April 9.

Cornwall.—Supply and delivery of approximately 35,000 tons of filling to the site of the County Council's road improvement at Latchbrook (about half-mile west of Burraton) on the Trerulefoot-Saltash road, A.374, for C.C. Written application to the Surveyor, County Hall, Truro. Tenders by March 29.

Coseley, Staffs.—Surface dressing to carriageways (approximately 45,000 sq. yd.) in the area of the district, for U.D.C. Documents from J. C. Roper, clerk of the council, Council House, Coseley. Deposit £2 2s., cheques payable to U.D.C. Tenders by March 28.

Coulsdon and Purley, Surrey.—Cold asphalt surfacing and ancillary works, for U.D.C. Documents from H. M. Collins, Council Offices, Purley. Deposit £3 3s. Tenders by March 29.

***Crawley, Sussex.**—Site works at furnace Green neighbourhood, for Development Corporation. Apply by April 7.

***Crosby, Lancs.**—Construction of a running track, for B.C. Deposit £2 2s. Tenders by April 20.

***Doncaster.**—Proposed bridge of River Don, contract 54, for B.C. Deposit £2 2s. Tenders by April 20.

Down. — Paving work at Cregagh Child Health Clinic, Gregagh Road, Belfast, for the County Health Committee. Documents from the County Planning Officer, English Street, Downpatrick. Tenders by March 31.

Dunstable, Beds.—Making-up of the following, for B.C.: Woodford Road (part), Linden Road (part), Ridgeway Drive (parts I and II), comprising the laying of some 690 sq. yd. of bitumen macadam surfacing, 2,660 lin. yd. of precast concrete kerbs, 1,480 sq. yd. of artificial stone flagged footpath, 360 sq. yd. of macadam verges, together with surface water drainage, street lighting and other incidental works. Documents from the Engineer, Municipal Offices, Dunstable. Deposit £2 2s. Tenders by April 11.

***East Barnet, Herts.**—Provision of concrete trough, contract 917, for U.D.C. Deposit £1 1s. Tenders by April 23.

East Retford, Notts.—Laying of approximately 1,000 sq. yd. of road foundations, together with ancillary kerbs, channels and sewers, at West Hill estate, contract 10, for B.C. Documents from the Surveyor, Municipal Offices, Retford. Tenders by April 14.

***East Sussex.**—Reconstruction of Iden Lock Bridge, for C.C. Deposit £5 5s., cheques payable to C.C. Tenders by April 25.

Edinburgh.—Asphalt paving works, phase 1, 1960-61, for B.C. Documents from Engineer, 329 High Street, Edinburgh. Tenders by April 7.

Edinburgh.—Manufacture and laying of hot rolled asphalt for providing and laying asphalt surfaces, etc., following abandonment of tramways in Pilrig Street and Newhaven Road, for B.C. Documents from Engineer, 329 High Street, Edinburgh. Tenders by March 29.

Eston, Yorks.—Private street works, St. Margaret's Grove, South Bank, for U.D.C., comprising the laying of approximately 720 sq. yd. of tarmacadam and cold asphalt surfacing, together with kerbing, channelling, flagging and ancillary works. Documents from the Surveyor, 246 Normanby Road, South Bank, Middlesbrough. Deposit £2 2s. Tenders by April 5.

Finchley, Middx.—Reconstruction of 13 district roads, for B.C., comprising approx. 25,000 super. yd. of scarifying and laying of two-coat macadam work, together with relaying of kerb channel, artificial stone paving and ancillary works. Documents from Surveyor, 294-296 Regent's Park Road, London, N.3. Deposit £2. Tenders by April 5.

***Frimley and Camberley, Surrey.**—Surface dressing carriageways, for U.D.C. Tenders by April 11.

Gelligaer, Glam.—Derwendeg Road improvement, which consists of the realignment and widening to 24ft. carriageway of approximately 630yd. of highway, for U.D.C. The works comprise the following approximate quantities, together with other incidental works: 1,800 cu. yd. of excavation; 2,300 sq. yd. of carriageway foundation; 6,000 sq. yd. of carriageway surfacing; 1,700 lin. yd. of kerbing; 423yd. of 6in. sewer and 100 lin. yd. of 9in. sewer. Documents from the Engineer and Surveyor, Council Offices, Hen-

goed, Glam. Deposit £5 5s. Tenders by April 1.

Godmanchester, Hunts.—Demolition and rebuilding of the Chinese Bridge at Godmanchester, including ancillary works, for B.C. Documents from Lea, Milner and Wardley, architects, 4 Market Hill, Huntingdon. Deposit £1 1s., cheques payable to B.C. Tenders by April 7.

***Haslemere, Surrey.**—Tar surfacing of various roads, for U.D.C. Tenders by April 2.

Hereford.—Entrance to crematorium, for City Council, comprising the provision of surface water drainage, kerbing, channelling, pitched foundation, macadam surfacing and all incidental works. Carriageway area approximately 2,500 sq. yd. Documents from the City Surveyor, Town Hall, Hereford. Deposit £2 2s. Tenders by March 30.

Hereford.—Road improvement at Salmon Inn, for City Council, comprising the provision of surface water drainage, kerbing, channelling, pitched foundation, macadam surfacing and all incidental works in connection with this improvement. Carriageway area approximately 700 sq. yd. Documents from the office of the City Surveyor, Town Hall, Hereford. Deposit £2 2s. Tenders by April 1.

***Hertfordshire.** — Reconstruction of bridge, for C.C. Tenders by May 4.

High Wycombe, Bucks.—Burning off removing old material and carting to a tip provided by the contractors, supplying and laying new wearing surface of single-coat rolled asphalt, average thickness 1in. in small areas, on the London-Fishguard trunk road, for B.C., as and when required during the current year. Quotations should be based on the following areas: Up to an area of 50yd. in any one area: over 50 super. yd. and up to 100 super. yd. in any one area; over 100 super. yd. and up to 200 super yd. in any one area. The rolled asphalt to comply with the British Standard Specification 594/58. Tenders in a plain sealed envelope endorsed Quotation for Rolled Asphalt—Trunk Road to J. A. Parkinson, surveyor, Municipal Offices, High Wycombe by April 7.

***High Wycombe, Bucks.**—Making-up of White Close, for B.C. Deposit £2 2s. Tenders by April 6.

Holland. — Repairing and / or resurfacing school playgrounds as follows, for C.C.: Boston Kitwood County Secondary Boys'; Boston High School for Girls; Spalding Gleed County Secondary Boys' and Girls' Gosberton House School; Algarkirk V.A.P.; Boston St. Mary's (R.C.) V.A.P.; Cowbit Endowed; Deeping St. Nicholas (M.T.) C.P.; Fishtoft V.C.P.; Fosdyke V.C.P. Gedney Church End C.P.; Holbeach St. Luke's C.P.; Kirton Marsh C.P.; Long Sutton C.I. and I. School; Moulton Chapel C.P.; Pinchbeck East V.C.P.; Sutterton V.C.P.; Spalding Goodfellows V.C.P.; Spalding St. Matthew's V.C.P.; Spalding St. Paul's C.P.; Weston St. Mary's V.A.P.; Wrangle Lowgrounds C.P. Documents from the County Architect, County Hall, Boston. Tenders by March 31.

***Hove, Sussex.**—Roadworks in Elizabeth Avenue, for B.C. Tenders by April 15.

Huddersfield, Yorks.—Making-up of footway and construction of sewer, Meltham Road, for B.C., comprising laying of 950 lin. yd. of stone kerb, the tarpaving of 1,600 sq. yd. of footway, and the construction of 400 lin yd. of 9in. stoneware sewer, together with brick manholes and s.w. gullies. Documents from A. L. Percy, borough engineer and surveyor, High Street Buildings, Huddersfield. Deposit £2 2s. Tenders by April 12.

Inverness-shire.—Reconstruction of a section of the Tarbert-Rodel Road, route A.859, Harris, length of the section approximately three miles, for C.C. Documents from the Surveyor, County Buildings, Inverness. Tenders by April 22.

Inverness.—Cement resurfacing of the Fish-market floor, for B.C. Documents from the Burgh Architect, 11 High Street, Inverness. Tenders by April 2.

Ipswich, Suffolk.—Following, for B.C.: (a) The supply delivery and laying of approx. 20,000 sq. yd. of thin rolled asphalt surfacing (hot process) and precasted chippings on the carriageways of various roads. The contractor will be required to lay all the above-mentioned materials by means of an approved mechanical spreader; (b) the heating and planing of approx. 20,000 sq. yd. of road surfaces, and the carting of the resulting windrow, while still hot, to selected footpaths or tips; (c) the maintenance and repair of the asphalt surfacings of various roads together with the reinstatements of openings made by statutory undertakings and others. Documents from the Surveyor, 19 Tower Street, Ipswich. Tenders by March 31.

***Irlam, Lancs.**—Flagging of footpaths, for U.D.C. Deposit £1. Tenders by April 9.

Irthlingborough, Northants.—Footpath resurfacing, for U.D.C., comprising the laying of approximately 3,500 sq. yd. of cold asphalt, together with approximately 400yd. of tarred slag and a small amount of re-kerbing. Documents from the Surveyor, Council Offices, Irthlingborough. Tenders by April 2.

***Leeds.**—Road works, A and B, for City Council. Deposit £1 1s. Tenders by April 7.

Leicester.—Following at The Glen Parvia estate, for City Council: 2,420 sq. yd. of reinforced concrete carriageway; 576 lin. yd. of 9in. 12in. x 21in. dia. sewers, together with incidental works. Documents from John L. Beckett, surveyor, Town Hall, Leicester. Deposit £1 1s., cheques payable to Corporation. Tenders by April 4.

***Lincolnshire.** — Reconstruction of footbridge, for Trent River Board. Deposit £5, cheques payable to the Board. Tenders by April 7.

***Luton, Beds.**—Making-up three streets, for B.C. Deposit £2 2s., cheques payable to Corporation. Tenders by April 4.

***Manchester.**—Supply and fixing of parking meters, for City Council. Tenders by May 9.

Melton Mowbray, Leics. — Site preparation, Kirby Lane housing estate, for U.D.C., comprising 3,500 sq. yd. roadworks, 1,200yd. kerbing, and 9in. and 6in. storm water sewers. Documents from the Engineer and Surveyor, Egerton Lodge, Melton Mowbray. Deposit £2 2s. Tenders by April 8.

Merionethshire.—Construction of a new three span skew bridge to carry the trunk road over the Afon Dwyryd at Maentwrog, for C.C., comprising the construction of concrete abutments and piers, partly masonry faced together with wing and training walls in masonry with a concrete slab deck carried by cased steel joists and tee beam construction. The skew span is 126ft. approx., and the contract also includes for approach road works of 600ft. Foundation work also includes the driving of 113 tons of steel sheet piling. Documents from the Surveyor, County Offices, Penarlag, Dolgellau. Deposit £10 10s. Tenders by April 11.

Middlesex.—Lowering of the existing road under the railway bridge and the reconstruction of the approaches at Station Road, West Drayton, for C.C. The carriageway is to be constructed in reinforced concrete and surfaced with hot rolled asphalt. The works also include the construction of mass concrete retaining walls, surface water drainage, kerbing, footways and other ancillary works. Documents from Surveyor, Middlesex House, 20 Vauxhall Bridge Road, London, S.W.1. Deposit £10. Tenders by April 11.

***Mossley, Lancs.** — Tarspraying of district roads, for B.C. Tenders by April 21.

***Newcastle-under-Lyme, Staffs.** — Making-up streets 1, 2 and 3, for B.C. Tenders by April 8.

Normanton, Yorks.—Private street works in respect of 14 adjoining streets of various lengths in the Lee Brigg area, for U.D.C. To enable the contractor to judge the size of the works there are 6,300 sq. yd. of carriageway in all and 2,200 sq. yd. of footpaths. Documents from the Surveyor, Town Hall, Normanton. Deposit £2 2s., cheques payable to U.D.C. Tenders by April 2.

Rotherham, Yorks.—Making-up of Park Grove and Westfield Road, Bramley, for R.D.C., consisting of approximately 900 lin. yd. of kerbing; 2,500 sq. yd. of tarmacadam carriageway together with ancillary footpath works; 430 lin. yd. of 6in. internal diameter surface water drainage; 120 lin. yd. of 4in. internal diameter surface water drainage. Documents from the Surveyor, Council Offices, Moorgate, Rotherham. Deposit £2 2s. Tenders by March 31.

Royton, Lancs.—Laying of hot rolled asphalt surfacing to approximately 12,000 sq. yd. of carriageway on sections of the Oldham/Rochdale road, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Royton. Tenders by April 4.

Rugby, War.—Concreting of the car park area situated at the rear of 16 and 17 Warwick Street, for B.C. Documents from the Council's Engineer and Surveyor, 16 Warwick Street, Rugby. Tenders by April 8.

Seaton Valley, Northumb. — Flagging work on Murton Grange estate, Shiremoor, for U.D.C. Documents from the Surveyor, Council Offices, Seaton Delaval, Whitley Bay. Tenders by April 9.

Stockport, Ches.—Formation of hard tennis courts at Fylde Lodge High School, for B.C. Documents from Borough Architect, Town Hall, Stockport. Tenders by April 4.

Stroud, Glos.—Surface dressing in tar and bitumen of various roads in the town, for U.D.C. Documents from the Surveyor, Council Chambers, High Street, Stroud. Tenders by April 5.

Sunbury-on-Thames, Middx.—Carrying out of maintenance and minor improvement works on roads within the Urban District during the year ending March 31, 1961, for U.D.C. Documents from the Surveyor, Council Offices, Sunbury-on-Thames. Tenders by April 4.

Sunderland.—Following, for B.C.: (a) North Bridge Street to Church Street North—construction of proposed new classified road (area of new carriageway approximately 6,350 sq. yd. with kerb lines, retaining walls and other ancillary works); (b) Pallion New Road (Doxfords Bridge to Queen Alexandra Bridge approach)—reconstruction (approximately 2,450 sq. yd.); (c) Westmoor Road (Sheridan Street to Fourstones Road)—reconstruction (approximately 3,000 sq. yd.); (d) Ettrick Grove Mount Road to Shrewsbury Crescent—reshaping surface (approximately 4,000 sq. yd.); (e) General Graham Street (Cleveland Road to Stewart Street)—construction of new sewer, 75 lin. yd. 24in. diameter reinforced concrete tube sewer, 236 lin. yd. 18in. diameter reinforced tube sewer, with manholes, etc. Documents from the Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s. each contract (cheques payable to Corporation). Tenders by April 5.

Sutton Coldfield, War.—Reconstruction of Wylde Green Road, for B.C., comprising the laying of approx. 650 lin. yd. of kerb and channel, 2,500 sq. yd. of surfacing to carriageway, and 1,600 sq. yd. of concrete slab paved footpath, together with all ancillary works. Documents from the Surveyor, Council House, Sutton Coldfield. Deposit £2. Tenders by April 11.

Sutton Coldfield, War.—Surface dressing contract, 1960, for B.C., comprising approx. 150,000 sq. yd. of trunk, county and district roads together with roads in Sutton Park. Documents from the Surveyor, Council House, Sutton Coldfield. Deposit £1. Tenders by April 4.

Taunton, Som. — Construction of roads, sewers and siteworks on the Priorswood estate, stage IV, for B.C. Documents from C. Bacon, architect, Flook House, Station Road, Taunton. Deposit £2 2s. Tenders by April 19.

Ulverston, Lancs. — Construction of approximately 570 super. yd. of tarmacadam footway and carriageway, 144 lin. yd. of 6in. surface water sewer, together with the laying of 87 lin. yd. of 3in. water main, Flookburgh (hospital site), for R.D.C. Documents from the Engineer, 24 Queen Street, Ulverston. Tenders by April 6.

Wakefield, Yorks.—Making-up of the following prvate street works, comprising kerbing, surface water drainage and laying of bituminous macadam and cold asphalt surfacing to roads and footpaths, for City Council: (1) Belgravia Road—187yd. approximately; (2) Marizon Grove, Berne Grove and Geneva Grove—215yd. approximately; (3) rear of Pinderfields Road—92yd. approximately. Documents from the City Engineer, Town Hall, Wakefield. Tenders by March 31.

***Widnes, Lancs.**—Roads and sewers, contract 380, for B.C. Deposit £2 2s. Tenders by April 7.

Wilmslow, Ches.—Surfacing of the Rex car park, for U.D.C., comprising the following: Approximately 2,650 super. yd. of surfacing and shaping with coated macadam, construction of some 28 lin. yd. of footway, drainage and appurtenant works. Documents from A. J. Riley, surveyor, Council Offices, Green Hall, Wilmslow. Deposit £2 2s. cheque. Tenders by March 31.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Ashbourne, Derbys. — Kniveton sewerage and sewage disposal, for R.D.C., comprising construction of approximately 1,710yd. of 6in. diameter sewers, together with manholes and a small sewage disposal works, comprising settlement tanks, circular bacterial filter bed, humus tank, storm water tank, sludge drying beds, site pumping station and other appurtenant works. Documents from the offices of Elliott and Brown, chartered civil engineers, Stanley House, Pelham Road, Nottingham. Deposit £5 5s. (cheques payable to R.D.C.). Tenders by April 21.

Barnsley, Yorks.—Reconstruction of Lundwood sewage disposal works, contract Q, for B.C., comprising construction of a 65ft. diameter reinforced concrete humus tank and a 30ft. diameter pumping station, together with ancillary works. Documents from the Engineer, Town Hall, Barnsley. Tenders by May 19.

Billesdon, Leics.—Parish of Newton Harcourt, sewerage and sewage disposal works, for R.D.C., comprising the construction of the following works: (a) About 1,240 lin. yd. o f9in. and 6in. diameter sewers and manholes; (b) sewage disposal works consisting of screening chamber, settlement and dosing tanks, filters, humus tanks, site pumping station, sludge drying beds, irrigation area and all ancillary work. Documents from John W. Stephenson, engineer and surveyor, Council Offices, Thurnby. Deposit £5 5s. (cheques payable to R.D.C.). Tenders by April 23.

***Biddulph, Staffs.**—Biddulph Moor sewerage scheme, for U.D.C. Deposit £3 3s. (cheques payable to U.D.C.). Tenders by April 18.

Bradfield, Berks. — Construction of approximately 5,100ft. of 7in. diameter stoneware sewers, together with manholes and other appurtenant works, at Pangbourne (contract 21), for R.D.C. Documents from John Taylor and Sons, Artillery House, Artillery Row, Victoria Street, Westminster, S.W.1. Deposit £5 5s. (cheques payable to R.D.C.). Tenders by April 11.

***Chailey, Sussex.**—Sewer works at Barcombe, for R.D.C. Deposit £3 3s., cheques payable to R.D.C. Tenders by April 30.

Coleraine, Londonderry.—Following, for R.D.C.: Supply, delivery, erection and wiring of two centrifugal non-clog sewage pumps with electric motors, switches and control equipment at a proposed pumping station in the townland of East Ballygelagh. Documents from R. Ferguson and S. McIlveen, engineers, 15 College Gardens, Belfast, 9. Tenders by April 1.

Cwmbran, Mon.—Culverting of Cwmnant Brook (third section) at Orchard Place, for U.D.C., including 15 lin. yd. of precast concrete box culvert under existing road, 107 lin. yd. of twin 24in. diameter pipes culvert and ancillary works. Documents from the Surveyor, Council Offices, Cwmbran. Deposit £3 3s. Tenders by April 11.

Canvey Island, Essex.—Construction of approximately 420 lin. yd. of 6in. diameter pitch-fibre soil sewers, together with precast concrete manholes in the following private streets, for U.D.C.: Bommel Avenue, Barnards Avenue, Beach Road, Florence Road. Documents from R. H. Stevens, surveyor, Council Office, Long Road, Canvey Island. Deposit £2 2s. Tenders by March 31.

***Chislehurst and Sidcup, Kent.**—Foul sewer extension, Sidcup By-pass, for U.D.C. Deposit £2. Tenders by April 11.

Dungannon, Tyrone.—Supply and erection at Castlecaulfield, of one 30 gallon per minute sewage ejector, for R.D.C. Documents from Munce and Kennedy, engineers, 133 University Street, Belfast, 7. Tenders by April 7.

Eastleigh, Hants.—Chandler's Ford relief sewer, for B.C., comprising the construction of approximately 850yd. of 12in. diameter concrete sewers with manholes, from Merdon Avenue to Park Road, via Kingsway, Chandler's Ford. Documents from the Town Hall, Eastleigh. Deposit £2 2s. Tenders by April 13.

***Horncastle, Lincs.**—Mareham-le-Fen sewerage scheme, for R.D.C. Deposit £3 3s., cheques payable to R.D.C. Tenders by April 14.

***Manchester.**—Davyhulme sewage works extensions, for City Council. Tenders by May 2.

***Newcastle-under-Lyme, Staffs.** — Madeley sewerage and sewage disposal, contract 2, for R.D.C. Tenders by April 28.

***Ramsey, Hunts.**—Construction of a storm-water culvert, for U.D.C. Deposit £5 5s. Tenders by April 8.

St. Austell, Corn. — Enlargement and part reconstruction of the existing sewage disposal works at St. Dennis, together with the construction of the Trerice sewer extension, for R.D.C., comprising the construction of screening tanks, storm tanks, filter bed, humus tanks, sludge beds, site pumping station, ejector station and access road; the enlargement of existing settling tanks and filter beds; 200 lin. yd. of 6in. diameter salt-glazed stoneware sewers; 250 lin. yd. of 4in. diameter asbestos-cement rising main. Documents from the Surveyor, Trevarna, 12 Carlyon Road, St. Austell. Deposit £5 5s. Tenders by April 26.

Salisbury and Wilton, Wilts.—Alterations and additions to existing sewage disposal works at Newton Close, Whiteparish, for R.D.C. The works consist of the construction of humus tank, pump house, etc., installation of pumping equipment, laying of land drainage and fencing. Documents from the Surveyor, 26 Endless Street, Salisbury. Tenders by April 4.

***Skipton, Yorks.**—Cracoe, Hetton and Rhylstone joint sewerage scheme, for R.D.C. Deposit £3 3s. Tenders by April 11.

Southend-on-Sea, Essex. — Three hundred and ninety lin. yd. of surface water sewer, Elm Road and 130 lin. yd. of sail sewer, Clatterfield Gardens, and incidental works in connection therewith, for B.C. Applications to the Surveyor, Municipal Buildings, Southend-on-Sea, by March 28. Deposit £2.

Stafford. — Little Haywood, Colwich and Bishton sewerage and sewage disposal, for R.D.C., comprising construction of approximately 5,080yd. of 6in., 9in. and 12in. diameter sewers, together with manholes, 4,440yd. of rising mains, together with two pumping stations and extensions to the existing sewage disposal works at Hixon, comprising settlement tank, circular bacterial filter bed, humus tank, and other appurtenant works. Documents from Elliott and Brown, engineers, Stanley House, Pelham Road, Nottingham. Deposit £5 5s. (cheques payable to R.D.C.). Tenders by April 28.

***Stourbridge, Worcs.** — Duplication of southern main sewer, for Main Drainage Board. Deposit £3 3s. Tenders by April 13.

Stranraer, Wigtowns.—Construction of 24in. diameter and 9in. diameter outfall sewers and other relative works, for B.C. Documents from Gilbert Thompson and Son, engineers, 164 Bath Street, Glasgow, C.2. Deposit £3 3s., cheque. A representative of the engineers will meet intending offerers beside the Harbour Master's Office, at 12.15 p.m., April 5. Tenders by April 15.

***Sunbury-on-Thames, Middx.** — Littleton village sewer, for U.D.C. Tenders by April 30.

Turton, Lancs.—Construction of the Little Oak surface water sewer, for U.D.C., together with manholes and outfall bay. The pipeline is approximately 240yd. in length, and the concrete, iron and stoneware pipes vary in diameter from 30in. to 9in. Documents from the Surveyor, Council Offices, Bromley Cross, near Bolton. Deposit £5 5s. Tenders by April 12.

Wirral, Ches.—Following, for U.D.C.: Provision laying and jointing of approx. 6,600yd. of concrete tube sewers 57in. and 15in. dia., manholes, the construction of two piled outfall sewers, together with storm overflows and the construction of sludge drying beds and a sludge pumping station at the site of the existing sewage disposal works at Heswall. Documents from John H. Haiste and Partners, engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6. Deposit £3 3s., cheques payable to U.D.C. Tenders by April 22.

STREET LIGHTING

***Atherton, Lancs.** — Group A street lighting, for U.D.C. Tenders by April 9.

Berkshire.—Lighting of the roundabout at the junction of Maidenhead By-pass and the trunk road (A.4), at Maidenhead Thicket, for B.C. The work consists of the supply and erection of 11 35ft. high steel columns and lanterns and other works. Documents from the Surveyor, Shire Hall, Reading. Deposit £2.

Esher, Surrey.—Installation of street lighting, stage II, contract 300, for U.D.C., comprising provision and erection of columns and brackets, provision and fixing of enclosed lanterns for sodium vapour and fluorescent lamps, together with lamps, control gear and ancillary works, as follows: approximately 15 25ft. high steel columns, 140-W sodium; approximately 178 19ft. high concrete columns, 60-W sodium; approximately 14 15ft. high steel columns, 2 by 40-W fluorescent; approximately 10 replacement of 15ft. high tungsten lanterns by 60-W sodium. Documents from the Surveyor, Council Offices, Esher. Deposit £1 1s. Tenders by April 13.

Harrogate, Yorks. — Supply and delivery of the following street lighting equipment, for B.C.: (a) 16 140-W sodium lanterns and gear; (b) 45 140-W sodium span lighting lanterns and gear; (c) seven 3 by 80-W fluorescent lanterns and gear; (d) 150 60-W by 200-W tungsten lanterns; (e) 100 time switch boxes; (f) 100 swan-neck lantern brackets; (g) 150 synchronous time switches; (h) 40 control gear boxes. Documents from the Engineer Municipal Offices, Harrogate. Tenders by March 29.

Ripley, Derbys.—Installation of tungsten or alternatively sodium discharge type street lighting on concrete columns, for U.D.C. Documents from H. Hillier, surveyor, Town Hall, Ripley, Derbys. Deposit £1. Tenders by April 2.

***Sidmouth, Devon.**—Cast-iron street lighting columns, for U.D.C.

***West Hartlepool, Dur.**—Supply of time switches, for B.C. Tenders by April 6.

AWARDS

BUILDING AND DECORATING

(See also Housing Schemes)

Adwick-le-Street, Yorks. — Demolition of buildings and construction of boundary walls, shelter and gates to the Town Hall, for U.D.C.: T. Coggon and Co., Ltd., Pipering Lane, off Watch House Lane, Doncaster. Work about to commence.

Ballymoney, Antrim.—Erection of lavatories at Portballintrae, for R.D.C.: R. Torrens, Ballinamoney, Ballymoney, £1,644.

Birmingham.—Alterations and additions at Hartfield Crescent School and alterations and extensions at Saltley Grammar School, for City Council. A. G. Sheppard Fidler, city architect: H. M. Grant and Co., Ltd., Cotteridge, Kings Norton, Birmingham, 30, £16,050, and Edgar Crowder (Builders), Ltd., Old Walsall Road, Handsworth Wood, Birmingham, 22a, £89,933, respectively.

Blaydon, Dur.—Erection of dining room and scullery at Blaydon East Modern School, for C.C.: Spooners, Ltd., Hull, £3,567.

Bradford, Yorks. — Following works, for City Council: Enclose verandas at Swain House Junior and Infants' School—S. Terry, Sugden Street, Bradford, 1, £3,875; construction of school meals scullery and dining room at Thackley Primary School—Thomas Obank and Sons, Ltd., Thackley, Idle, Bradford, £2,775; alterations to kitchen, etc., at Linton Special School—W. V. Patrick (Builders), Ltd., Station Road, Grassington, £2,382.

Exterior painting of houses on Corporation's housing estates: Bierley—162 houses—D. E. Baggley and Co., Ltd., £1,780; 184—Reliance Painting Co., £1,978; 224 and 142—B. Owen, £2,296 and £1,455, respectively; 152—W. Brook, £1,580; 266—R. F. Fields, £2,262; Swain House: 148 and 108—L. Sheffield, Ltd., £1,406 and £1,026, respectively; Lower Grange: 102 and 106—J. C. Walbran, £943 and £980, respectively; Buttershaw: 135—J. Robinson (Decorators), Ltd., £1,007 (all recommended).

Brighton, Sussex.—Following works, for B.C.: Provision at Brighton Sports Club of additional changing accommodation, club rooms and boiler house, together with an oil-fired system—Patching and Son, Ltd., 43 Portland Street, Brighton, 1, £5,494 (recommended); A. and F. Pilbeam, Ltd., £5,530; H. A. Pocock, Ltd., £5,550; T. J. Braybon and Son, Ltd., £5,738; Gates and Sos, Ltd., £5,775; Jeffery and Sons, Ltd., £5,861; G. J. King and Sons, Ltd., £6,075; E. Jeffery and Partners, Ltd., £6,159.

Erection of pavilions at Blaker's Rookery and Dyke Road Parks—Macks Structures (London), Ltd., £813 (recommended); Swiftplan, Ltd., £845; Ernest Slater, Ltd., £1,059; Astolat Co., Ltd., £1,255; Round Timber Supply Co., Ltd., £1,356; E. C. Walton and Co., Ltd., £1,395; H. Peel, Ltd., £1,496; Lewes Road Sawmills, Ltd., £1,667; F. W. Davis (Timber), Ltd., £1,866.

Bristol.—Erection of supermarkets at Canford Lane, Westbury-on-Trym, and at Fishponds Road, for Gateway Supermarkets, Ltd.: John Laing and Son, Ltd., Mill Hill, London, N.W.7: A. E. Powell, architect, and L. H. Dark, quantity surveyor, both at 3 Berkeley Square, Bristol, 8.

Bury St. Edmunds, Suffolk.—Sixteen houses at Oliver Road-Willcox Avenue, for B.C.: Direct Labour, £24,846 (recommended).

Caistor, Lincs.—Builder's work for lift at Caistor Hospital, for Sheffield Regional Hospital Board: H. Ashton and Son, Newport Street, Barton-on-Humber, £1,678 (recommended).

Camberwell.—Erection of an office building, consisting of four storeys and a basement, at Lyndhurst Way, Peckham, abutting on existing premises, for Amalgamated Engineering Union. Griggs and Son, Ltd., 56 Victoria Street, London, S.W.1, £115,845 (accepted, subject to checking); Dove Bros., Ltd., £116,200; G. E. Wallis and Sons, Ltd., £117,982; Truett and Steel, Ltd., £118,649; Hall, Beddall and Co., Ltd., £121,136; J. and R. Rooff, Ltd., £123,300; Poulton and Freeman, architects, 6a Wyndham Place, London, W.1; E. R. Babbs and Sons, quantity surveyors, 187 Piccadilly, London, W.1.

Chatham, Kent.—Demolition of the Red Lion public-house at Military Road and the erection of shops on the site, for H. Samuel, Ltd., 196 High Street: H. T. Letley and Son, Ltd., 4 George Street, Chatham, estimated cost £15,000. W. H. Saunders, Son and Waters, architects 53 Goodge Street, London, W.1; E. R. Babbs and Sons, quantity surveyors, 187 Piccadilly, London, W.1. Work has commenced.

Cheadle, Staffs.—Erection of one block of two shops with two flats over at Kingsway, Weston Coyney, for R.D.C.: J. A. Bailey and Sons (Builders), Ltd., Tape Street, Cheadle, £7,137 (accepted); W. Brammar and Co., £7,633; Wilcox Bros., £8,770.

Chepstow, Mon.—Science block and gymnasium at Larkfield Grammar School, for C.C. W. W. J. Trollope, architect, 1a Sackville Street, London, W.1—Taverner (Contractors), Ltd., 145 Stow Hill, Newport, £48,481.

Chesterfield, Derbys.—Following works, for Sheffield Regional Hospital Board: Adaptations to Holywell House for medical staff at Royal Hospital—J. A. B. Short, Ltd., 214 Sheffield Road, Chesterfield, £3,018; building for reorganisation of engineering services and central heating in changing hut at Whittington Hall near Chesterfield—W. Revill and Sons Ltd., Sherwood Street, Chesterfield, £3,015 (both recommended).

Cockermouth, Cumb.—Alterations and additions to Lorton Street Methodist Church. Graham, Roy and Nicholson, architects, 52 Main Street, Cockermouth: Thomas Armstrong, Ltd., Cockermouth, £5,200.

Erection of shopping centre (five shops with living accommodation) at the corner of Lowoa Lane and Main Road: John Twiname, Ltd., Allerdale House, Brigham.

Coleraine, Londonderry.—Following works at Coleraine Gasworks, for B.C.: (1) Improvements to the canteen; (2) retort house, repairs to asbestos roof sheeting, gutters, etc., and steelwork painting. Crofton Dalzell, architect, Northern Bank Building, Coleraine: John Rainey and Co., Coleraine Road, Portrush, £1,614. (Accepted). J. Kennedy and Co., Ltd., £1,615.

Corby, Northants.—Erection of a boys' club at Lodge Park estate, for the Northamptonshire Association of Boys' Clubs. Gotch, Saunders and Surridge, architects, High Street, Kettering: Reema Construction, Ltd., Milford Manor, Salisbury. Estimated cost £6,000.

Derby.—Builder's work for improvements to hot water service, Thornhill House, Kingsway Hospital, for Sheffield Regional Hospital Board: W. Ford and Sons (Contractors), Ltd., Summer Hill, Beckett Well Lane, Derby, £1,620 (recommended).

Dewsbury, Yorks.—Erection of a block of shops and offices on the site of the Dewsbury Empire, for M. Harrison and Co. (Leeds), Ltd. J. G. L. Poulson, architect, 29 Ropergate, Pontefract, Yorks.: M. Harrison and Co. (Leeds), Ltd., Post Hill Quarries, Farnley, Leeds, 12. Estimated cost £250,000. Demolition commenced.

Doncaster, Yorks.—Resident medical officers' block and connections to existing building at Royal Infirmary, for Sheffield Regional Hospital Board: Gee, Walker and Slater, Ltd., Uttoxeter Old Road, Derby, £83,611 (recommended).

Dover, Kent.—Construction of a grammar school for girls at Castle Avenue, for the Order of the Ursulines of Jesus: R. J. Barwick and Sons, Ltd., Market Street, Dover. Estimated cost £50,000 (work just commenced).

Durham.—Following, for C.C.: Alterations and additions to Girls' Grammar School—D. and J. Ranken, Ltd., Stockton Road, Sunderland, £118,141; erection of modern school at High Usworth—Gordon Durham and Co., Moor Lane, Boldon, £95,775; erection of drill tower at Peterlee fire station—M. D. Lilley and Sons, Ltd., Back Woods Terrace, Murton, Co., Durham, £5,943.

Eastbourne, Sussex.—Erection of six garages at Ashgate Road, for B.C.: Carn and Son, 90a Tideswell, Eastbourne, £1,033 (recommended); C. A. Rosamond, £1,353; J. G. Robinson and Sons, Ltd., £1,375; A. Fillery and Son, £1,250; S. M. Tidy, Ltd., £1,366; Trills, Ltd., £1,150; G. Gower and Sons, Ltd., £1,085.

Edinburgh.—Erection of a factory at Sighthill Industrial Estate, for A. R. Bolton, 3a St. Vincent Street, Edinburgh: John Wight and Co. (Edinburgh), Ltd., Earls Gate Works, Grangemouth, £5,000.

Edinburgh.—Erection of virological laboratory at the City Hospital, for South-Eastern Regional Hospital Board, Scotland, 11 Drumsheugh Gardens, Edinburgh, 3: James Miller and Partners, Ltd., 18 George Street, Edinburgh, 2, estimated cost £20,000. Richard E. and B. L. C. Moira, architects, 12 Inverleith Row, Edinburgh; Phillips, Knox and Arthur, quantity surveyors, 35 Manor Place, Edinburgh.

Enfield, Middx.—Erection of warehouse and offices at Brimsdown industrial estate, for Colgate-Palmolive, Ltd., 145 Charing Cross Road, W.C.2: Percy Bilton, Ltd., Bilton House, 54/58 Uxbridge Road, London, W.5.

Enfield, Middx.—Erection of five-storey office block at junction of Great Cambridge Road and Lincoln Road, for Jamelson Property Co., Ltd.: Concrete frame—Concrete (Southern), Ltd., Green Lane, Hounslow; infilling panels—S. Warner and Son, Ltd., Vulcan Way, New Addington, Croydon, Surrey.

Enclosure of veranda at Merryhills Primary School, for B.C.: G. S. Garey and Sons, Ltd., 28 Burleigh Road, Enfield, £1,482.

Exeter.—Architectural treatment of portico and steps at St. George's Chapel, for City Council: M. T. Sleeman and Sons, Longbrook Terrace, Exeter, £3,254 (recommended, subject to certain amendments).

Gateshead, Dur.—Erection of fire station, Dryden Road, for Newcastle and Gateshead Joint Fire Service Committee: Tate and Holmes, Ltd., Benwell Village, Newcastle upon Tyne, £64,405 (recommended subject to Home Office approval).

Gloucestershire.—Erection of Soundwell covered swimming bath (pool size 110ft. x 42ft.), for Kingswood and Mangotsfield U.D.C.s. Burrough and Hannam, architects, 23 Richmond Hill, Bristol, 8: W. Cowlin and Son, Ltd., Stratton Street, Bristol, 2, £141,231 (accepted); Benson Bros. (Bristol), Ltd., £146,390; Richard Costain, Ltd., £147,619; Griggs and Sons, £148,264; Holland & Hannen and Cubitts, £154,010; John Laing and Son, Ltd., £145,298; H. J. Walker and Son, Ltd., £147,777; Wilkins and Coventry, Ltd., £144,284.

Great Yarmouth, Norfolk.—Supply and erection of prefabricated building for outpatient and casualty department at the General Hospital: Terrapin, Ltd., Haddon House, 2-4 Fitzroy Street, London, W.1. £3,059 (recommended).

Greenwich.—Erection of the first stage of a county primary school at Lewisham Road, for L.C.C.: Rice and Son, Ltd., 15 Stockwell Road, London, S.W.9, £53,773 (accepted); Thomas and Edge, Ltd., £53,977; Halse and Sons, Ltd., £54,043; Kirk and Kirk, Ltd., £54,136; Token Construction Co., Ltd., £54,501; W. J. Simms, Sons and Cooke, Ltd., £54,605; Rowley Bros., Ltd., £56,500; Bernard Sunley and Sons, Ltd., £57,928.

Hammersmith.—Improvements and major repairs at Addison Primary and Secondary Schools, for L.C.C.: Sheppard and Short, Ltd., 967 Harrow Road, Wembley, Middx., £22,574 (accepted); Dix (Builders), Ltd., £22,380; J. and C. Bowyer, Ltd., £23,177; E. J. Lacy and Co., Ltd., £23,915; Harrison and Spooner, Ltd., £25,311.

Harrogate, Yorks.—Following works, for B.C.: Painting 193 houses at Devonshire Place, and 128 at Ripon Road—J. Ibbotson, Ltd., Doncaster, £2,403 and £1,597, respectively; public conveniences at Devonshire Place—G. A. Scaife, 33 Water End, York, £1,380 (recommended).

Hounslow, Middx.—Marks and Spencer, Ltd. 82 Baker Street, London, W.1, are to make extensions to premises in Hounslow High Street. The company's principal contractors are Bovis Holdings, Ltd., 1 Stanhope Gate, London, W.1.

Huddersfield, Yorks.—Phase Ia of new general hospital at Green Lea, Lindsey, for Leeds Regional Hospital Board: Tersons Ltd., 4 Dollis Park, London, N.3, £1,776,000. George Trew and Dunn, architects, 50 Eastbourne Terrace, London, W.2. The consulting structural engineers are Scott and Wilson, Kirkpatrick and Partners, 47 Victoria Street, London, S.W.1, and consulting mechanical and electrical engineers, Donald Smith Seymour and Rooley, 45 Park Lane, London, W.1. Rex Procter and Partners, 15 Blenheim Terrace, Leeds, 2, are the quantity surveyors.

Islington.—Repair and conversion of houses, as follows: 429-431 Holloway Road, 105 Tollington Way, 75 Hartham Road, 56 Kingsdown Road, 38 Kingsdown Road and 113 Hungerford Road—R. Talbot and Sons (London), Ltd., 356 Caledonian Road, London, N.1, £8,969, £2,040, £2,555, £2,097, £2,480 and £2,437; 72 St. George's Avenue, 19 and 20 Alwyne Road, 53 Aberdeen Road, 32 Ireton Road, 10 Ireton Road—Kenny and Reynolds, 28 Loraine Road, N.7, £2,187, £2,688, £1,793, £1,331, £1,272; 29, 30 and 31 Penn Road, 8 Ireton Road—E. Basham, Ltd., 6 St. Paul's Place, N.1, £4,648 and £1,964; 25 Kelross Road—C. and F. Bryen, Ltd., 170 Hornsey Lane, N.6, £2,559; 13 Aubert Road—Smith and Mills, Ltd., 5 Elmdale Road, N.13, £2,057; 21 Harecourt Road, 88 Corbyn Street, 8 Poets Road—W. Easter and Sons, Ltd., 51 Newington Green Road, N.1, £2,159, £1,831, £2,323; 60 Whitehall Park—W. T. Ricketts and Sons, Ltd., 73 Southgate Road, N.1, £2,272.

Jarrow, Dur.—Erection of garage for the Northern General Transport Co., Ltd., Bensham, Gateshead. R. C. Cowmeadow, architects, Slad, Stroud, Gloucester: Bewley and Scott, Ltd., Dunston-on-Tyne.

Killarney, Eire.—Erection of Castlerosse Drive Inn on site of the old Royal Victoria Hotel, Kenmare estate, for W.D.I. (Ireland), Ltd.: John Sisk and Son, Ltd., 108 Douglas Street, Cork, £75,000. Philip Jebb, architect, 140 Sloane Street, London, S.W.1; D. T. McCarthy, of O'Connell and Harley, quantity surveyors, 9 South Mall, Cork.

King's Lynn, Norfolk.—Erection of the first instalment of the West Norfolk and King's Lynn High School, for Co. E.C.: Warren Bros., Clenchwarton, King's Lynn, £19,900 (subject to Ministry approval).

Kingston-upon-Thames, Surrey.—Erection of two-storey building, for Littlewood Mail Order Stores, Ltd., Waterloo Buildings, Cases Street, Liverpool: H. Fairweather and Co., Ltd., Hyde Works, St. James Lane, London, N.10. Estimated cost £200,000.

Kirkby, Lancs.—Public conveniences and bus shelter at Northwood, for U.D.C. C. Rigby, engineer and surveyor: Direct Labour.

Leicester.—Following work, for Sheffield Regional Hospital Board: Alterations at Fielding Johnson Hospital—R. H. Taylor, 2½ Jarrom Street, Leicester, £1,041; examination suite at Royal Infirmary Maternity (John Faire block): Belvoir Building Co., Leicester, £3,400 (recommended).

Lichfield, Staffs.—Improvements to the public baths, for City Council: J. R. Deacon, Ltd., Lombard Street, Lichfield, £14,863 (subject to Ministry approval).

Lincoln.—Upgrading of staff sanitary accommodation at Bracebridge Heath Hospital, for Sheffield Regional Hospital Board: W. J. Simons, Ltd., 12 Friars Lane, Lincoln, £3,805 (recommended).

London.—Four-storey extensions at Knightsbridge, for Woolland Bros., Ltd.: Holland & Hannen and Cubitts (Great Britain), Ltd., General Works Department, 258 Gray's Inn Road, London, W.C.1, estimated cost £142,000. Michael Brashier, architect, 11 Gayfere Street, S.W.1. Harvey B. Young, consulting engineer, 87 Eccleston Square, S.W.1. L. A. Francis and Sons, quantity surveyors, Vernon House, Sicilian Avenue, W.C.1.

Londonderry.—Erection of a four-classroom voluntary primary school at Broadbridge. F. H. Wright and Partners, quantity surveyors, 79 Botanic Avenue, Belfast: F. O'Connor (Builders), Ltd., Abbey Street, Londonderry. Work is expected to commence April 1.

Mansfield, Notts.—Erection of a public-house at Ladybrook, for Tennant Bros., Ltd., Exchange Brewery, Sheffield, 3. M. W. Ofield, staff architect: E. C. Rippon, Ltd., Moor Lane, Mansfield, Notts.

Mickleover, Derbys.—Builder's work for area laundry at The Pastures Hospital, for Sheffield Regional Hospital Board: W. Ford and Sons (Contractors), Ltd., Summer Hill, Beckett Well Lane, Derby, £8,700 (recommended).

Middlesex.—Construction of the superstructure for a new passenger block in the central area of London Airport, for the Ministry of Civil Aviation: Taylor Woodrow Construction, Ltd., Ruislip Road, Southall, Middx., estimated cost £1,300,000. Frederick Gibberd, architect, 8 Percy Street, London, W.1. Franklin and Andrews, quantity surveyors, 173 Fleet Street, E.C.4. G. H. Buckle and Partners, mechanical and engineering consultants, 2 Harrington Gardens, S.W.7.

Milnrow, Lancs.—Construction of an extension to engineering works for John Holroyd and Co., Ltd.: James Berry, Ltd., Chapel Street, Heywood. Estimated cost £100,000. Work commenced.

Newark-on-Trent, Notts.—Attested cattle market extensions, for B.C.: (1) Construction of 42 store cattle pens with 6in. concrete floors (approx. 1,000 super. yd.), including fixing of penning, rails and gates; (2) construction in 9in. brickwork of a calf auction, with 6in. concrete floors (230 super. yd.), and asbestos-cement roof covering, including fixing of penning, rails and gates; (3) extension of existing truck wash in 8in. concrete (178 super. yd.); (4) construction of 1,900 super. yd. of 6in. concrete roadways; (5) drainage, water supply and electrical installations incidental to works. W. P. S. Hewell, borough surveyor: Lindum Construction Co., Silverwood Place, Lincoln, £10,350 (accepted); Ed. Jacklin, Ltd., £12,933; International Developments Co., Ltd., £10,634; E. Coleman, Ltd., £11,195; W. J. Roberts, Ltd., £12,281; H. Stirland and Sons, Ltd., £10,600.

Newcastle upon Tyne.—New boilerhouse (224,000 cu. ft.) at the Royal Victoria Infirmary. J. H. Napper and Partners, architects, 133 Osborne Road, Newcastle, in association with H. E. M. Dobson, Infirmary staff architect: Stephen Easten, Ltd., Westgate Grange, Newcastle upon Tyne.

Norfolk.—Erection of three-class primary school at Spixworth and three additional classrooms at Costessey Secondary Modern School, for E.C.: H. G. Lomax and Son, Ltd., School Lane, Sprowston, Norwich, £17,787 and £6,969, respectively.

Nottingham.—Provision of a vestry and toilet facilities at General Hospital, for Sheffield Regional Hospital Board: Gilbert and Hall, Ltd., Wharf Road, Castle Boulevard, Nottingham, £1,396 (recommended, subject to Ministry approval).

Nottingham.—Provision of labour room in J. D. Player ward at Hospital for Women, for Sheffield Regional Hospital Board: George Wood and Son (Builders), Ltd., Stoney Street, Beeston, £1,851 (recommended).

Oxford.—Erection of hostel for old people at Jackson Road, Cutteslowe, for City Council: Knowles and Son (Oxford), Ltd., 27 Pembroke Street, Oxford, £62,490 (recommended).

Peterborough.—First instalment of the county primary school at Werrington, for the Joint Education Board. L. H. Robjohn, surveyor: Rose and Sons Ltd., 2 Low Cross, Whittlesey, £63,064. Work commencing March 31.

Peterlee, Dur.—Erection of Dene House Modern School, for C.C. G. R. Clayton, county architect: Milton Hindle, Ltd., Peterlee, Co. Durham, £140,000.

Romford, Essex.—Following works, for B.C.: Ten shops, 12 flats and six garages at the High Street—L. and S. Builders (Brentwood), Ltd., £53,686; reconstruction of Cemetery Lodge—E. W. Smith and Co., 1-3 Western Road, Romford, £2,727; construction of two villas for aged persons at Queen Street—Tagg and Egerton, Ltd., 3 Albert Road, Romford, £38,453 (recommended).

Sheffield, Yorks.—Following, for Sheffield Regional Hospital Board: Adaptations to form physics department at 21 Claremont Crescent: R. E. Heathcote and Son, Ltd., Doncaster Road, Thrybergh, £6,479; alterations to former physiotherapy and X-ray departments at City General Hospital, and builder's work for bed lift at Nether Edge Hospital—Thos. Wilkinson and Sons (Builders), Ltd., Olive Grove Works, Sheffield, 2, £3,469 and £3,031, respectively; prefabricated building for donor panel offices and erection of building at headquarters centres, Northfield Road—J. Thorn and Sons, Ltd., 164 Brampton Road, Bexleyheath, Kent, £956, and W. Malthouse, Ltd., Derbyshire Lane, Sheffield, 8, £1,950, respectively (all recommended).

Shotley Bridge, Dur.—Erection of ante-natal clinic at the Richard Murray Hospital, for Newcastle Regional Hospital Board. Fennell and Baddiley, architects, Bridge End Chambers, Chester-le-Street: Tate and Holmes, Ltd., Benwell, Newcastle upon Tyne, 5, £11,115; mechanical engineering services—J. T. Leake and Co., Ltd., Back Hanover Square, Newcastle, £1,277; electrical work—A. S. Lowery and Son, Ltd., Blenheim Street, Newcastle, £751.

Skipton, Yorks.—Extension to General Hospital, for Leeds Regional Hospital Board: F. Shepherd and Son, Ltd., Blue Bridge Lane, York, £123,163 (recommended). Work about to commence.

Sleaford, Lincs.—Builder's work for a.c./d.c. change-over at Rauceby Hospital, for Sheffield Regional Hospital Board: G. C. Munton, Ltd., Ruskington, Sleaford, £1,389 (recommended).

Southend-on-Sea, Essex.—Following works, for B.C.: Erection of practical blocks at (a) Southend High School for Boys, (Eastwood High School. P. F. Burridge, borough architect: Hodgson (Wickford), Ltd., Torquay Drive, Leigh, (a) £27,689, and E. G. and L. E. Hubbard, Ltd., 57a Christchurch Road, Southend-on-Sea, (b) £7,616, respectively.

Construction of kitchen and dining room assembly hall of about 4,500 super. ft. of brick construction and other incidental works, at Chalkwell Hall School—Jas. C. Flaxman and Sons, Ltd., 114 Southchurch Road, Southend-on-Sea, £20,964, Ayshford and Sansome, architects, 112 The Broadway, Thorpe Bay, Essex, Daniel B. Connal and Partners, quantity surveyors, 100 High Street, Southend-on-Sea.

Sutton, Surrey.—Erection of stage one of the Royal Marsden Hospital, for Royal Marsden Hospital Group, Fulham Road, London, S.W.6: Tersons, Ltd., 4 Dollis Park, London, N.3. Estimated cost £750,000. Lanchester and Lodge, architects, 10 Woburn Square, London, W.C.1; Wakeman, Trower and Partners, quantity surveyors, 47 Bloomsbury Square, London, W.C.1; Travers Morgan and Partners, structural consultants, 60 Rochester Row, London, S.W.1.

Swaffham, Norfolk.—Erection of three additional classrooms at Swaffham Secondary Modern School, for Co. E.C.: H. C. Greengrass and Sons, Ltd., 161 Oak Street, Norwich, £8,636.

Tunbridge Wells, Kent.—Alterations and additions to the Bristol Arms at Calverley Road, for Flowers Breweries (Southern), Ltd., The Brewery. J. J. Cardwell, architect, 5 York Road: J. C. Elkington, Ltd., 14 Avebury Avenue, Tonbridg. Estimated cost £10,000.

Tynemouth, Northumb.—Works extensions at North Shields, for Formica, Ltd. Bedford and Partners, consulting engineers, 41 New Bond Street, London, E.1: John Laing and Sons, Dalston Road, Carlisle.

Wandsworth.—Improvement of the entrance to King George's Park, from Buckhold Road, for B.C.: Allard and Saunders, Ltd., 73 Upper Richmond Road, London, S.W.15, £5,135 (recommended); Hunter and Clark (Southern), Ltd., £5,277; Whyatt (Builders), Ltd., £5,412; R. Patten, Ltd., £5,557; Grosvenor Construction, Ltd., £5,741; James Pavey, Ltd., £5,971; J. Kidd and Son (Builders), Ltd., £6,189.

Wellingborough, Northants.—First phase of extensions to the Technical College, for Co. E.C.: A. J. Potter and Sons, Ltd., High Street, Stanwick, Raunds, £101,194 (subject to M.E. approval).

Wells-next-the-Sea, Norfolk.—Conversion and improvements at the Diamond Jubilee House, for U.D.C.: Fisher and Son (Fakenham), Ltd., Fakenham, £1,341 (recommended).

Westminster.—Erection of an office block at Golden Square, W.1, for Granada (Management), Ltd.: J. Jarvis and Sons, Ltd., 239 Vauxhall Bridge Road, London, S.W.1, estimated cost £222,000. C. H. Elsom and Partners, architects, 10 Lower Grosvenor Place, S.W.1. Geoffrey Palmer, consulting engineer, 43 Villiers Street, W.C.2. Cyril Sweett and Partners, quantity surveyors, 37 Bedford Row, W.C.1.

Widnes, Lancs.—Erection of public baths, Kingsway, comprising erection of slipper baths, changing accommodation and swimming pool 110ft. by 42ft.; a single-storey building of steel-frame construction and curtain walling, for B.C. H. Nevile Player, borough architect: Unit Construction Co., Ltd., North-West Region, Speke Boulevard, Liverpool, 24, £164,119. Work commenced.

DEMOLITION

Barnet, Herts.—Demolition and removal of four type two trench shelters and the reinstatement of the surface and all other incidental works, at Vale Drive and Underhill, for U.D.C.: E. Doe and Sons (Contractors), Ltd., Fyefield, Ongar, Essex.

Huddersfield, Yorks.—Demolition of properties in Northgate, Northumberland Street, Union Street and York Street, the packing of certain cellars and areas, and clearance of site, etc., for B.C.: H. Morfitt and Sons, 116 Manchester Road, Thurlstone, Penistone.

Swinton and Pendlebury, Lancs.—Demolition of 50-52 Tennyson Road, Swinton, for B.C.: Ainsworth Demolition Co., Ltd., Radcliffe, £15 (recommended).

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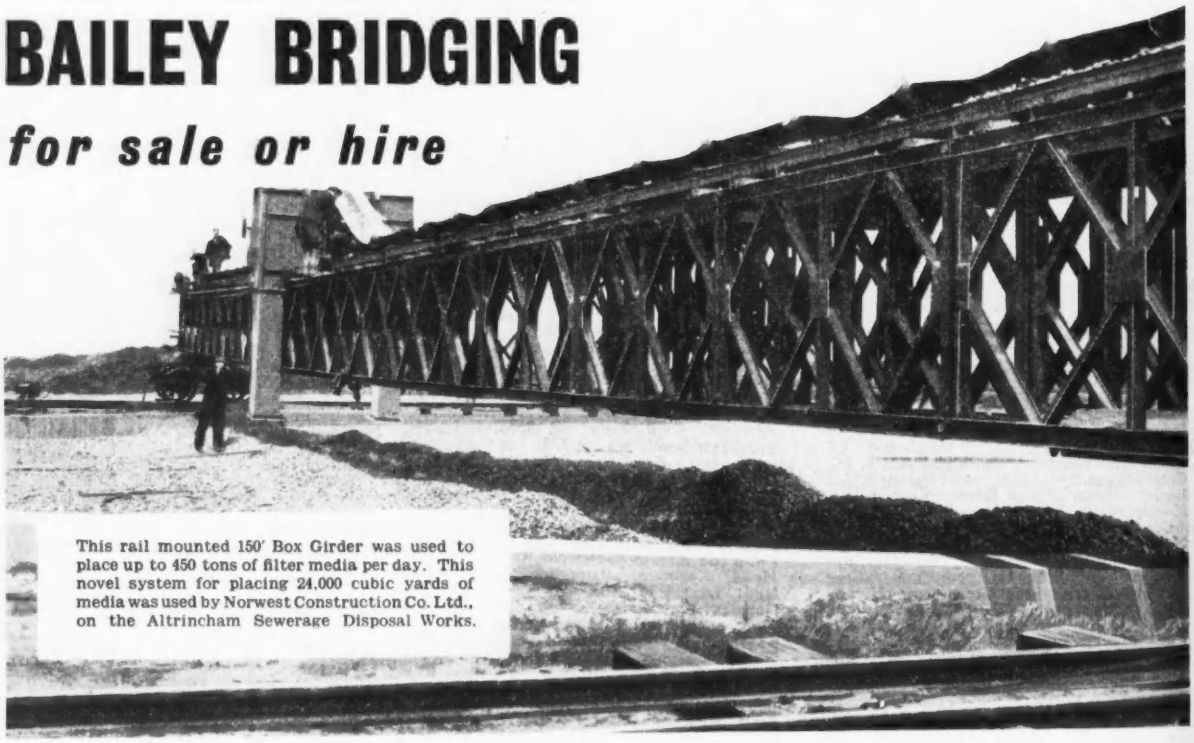

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ELECTRICAL

Brighton, Sussex.—Installation of traffic signals at Dyke Road, Western Road and Clock Tower junctions, for B.C.: Automatic Telephone and Electric Co., Ltd., 59a Middle Street, Brighton, 1 (recommended). Estimated cost £3,500.

Darlington, Dur.—Electrical extensions for laundry scheme at Memorial Hospital, for Newcastle Regional Hospital Board: Doves, Ltd., Darlington, £1,339.

Eastbourne, Sussex.—Erection of a switching station adjacent to East Dean Road and the laying of an underground cable from the switching station to New Barn, and the provision of an overhead line from New Barn to Ringwood Farm, for B.C.: South Eastern Electricity Board, £900 (recommended).

Great Yarmouth, Norfolk.—Electrical installation in new kitchen and foul-wash house at Northgate Hospital, for the East Anglian Regional Hospital Board: Bowers and Barr, Ltd., 24 Regent Street, Great Yarmouth, £2,497 (recommended); Lowestoft Electrical Co., Ltd., £2,529; Johnson, Pearce and Co., Ltd., £2,581; Mann, Egerton and Co., Ltd., £2,720; Eastern Electricity Board, £3,059.

Middlesbrough, Yorks.—Electrical work in connection with remodelling of laundry at Poole Hospital, Nunthorpe, for Newcastle upon Tyne Regional Hospital Board: Haigh and Ringrose, Ltd., Middlesbrough, £2,516.

GAS AND WATER SUPPLY

Ennerdale, Cumb.—Laying of 2,000yd. of 6in. water mains at Egremont, and 400yd. of 3in. main at Cleator Moor, for R.D.C.: Border Engineering Contractors, Ltd., Queen Street, Whitehaven.

Exeter. — Construction of a 5½m.-gallon intermediate reservoir at Belvidere Road, for City Council: Building and Construction Co., Ltd., Shockcrete Works, Rye House, Hoddesdon, Herts., £88,411 (recommended).

Markethill, Armagh.—Water supply at Poultry Breeding Station, Gosford Castle estate, for the Ministry of Finance: Johnston Bros., Main Street, Hillsborough, Co. Down.

Northallerton, Yorks.—Extensions to filter station, for the Northallerton and District Water Board. Edward Sandeman, Kennard and Partners, consulting engineers, 171 Victoria Street, Westminster, London, S.W.1: Building—Walter Thompson (Contractors), Ltd., North End, Northallerton; filter plant—United Filters and Engineering, Ltd., Unifilter House, Burston Road, Putney, S.W.15.

North Devon.—Bickham Moor service reservoir, contract 55, for the North Devon Water Board, comprising construction of a reinforced concrete covered service reservoir, with earthen embankments, to contain 500,000 gallons, and other ancillary works in connection therewith, at Bickham Moor in the parish of Oakford, at a point approximately 5½ miles west of Bampton and 10 miles east of South Molton. Rofe and Raffety, consulting engineers, 9 Brewer's Gate, Buckingham Gate, Westminster, S.W.1: C. P. Unwin and Sons, 33, St. Peter Street, Tiverton, £19,181.

Pewsey, Wilts. — Regional water supply scheme, stage three, contract one, for R.D.C., comprising the provision and laying of 18 miles of water main from 10in. to 3in. dia., including valves and hydrants, and the construction of a reinforced concrete reservoir of a quarter of a million gallons capacity, which will be sited approx. one mile west of Upavon. A. H. S. Waters and Partners, consulting engineers, 25 Temple Row, Birmingham: Surface Maintenance Services, Ltd., Durham House, 124 Old Christchurch Road, Bournemouth, £106,147.

Worthing, Sussex.—Sinking and testing of the experimental boreholes at Northbrook Nursery, for B.C.: Duke and Ockenden, Ltd., Ferry Wharf, Littlehampton, £7,410.

HEATING AND VENTILATING

Belfast.—Supply and installation of air conditioning equipment at the new tobacco factory, for Gallaher, Ltd., Granite House, Cannon Street, London, E.C.4: P. M. Walker and Co. (Halifax), Ltd., Alexandra Works, Hopwood Lane, Halifax, Yorks. Estimated cost £100,000.

Bradford, Yorks. — Hot water installation at Town Hall, for City Council: R. Townend, Croft Street, Bradford, 5, £1,438 (recommended).

Chesterfield, Derbys. — Engineering services and general heating in changing hut at Whittington Hall, near Chesterfield, for Sheffield Regional Hospital Board: W. Richardson and Co., Ltd., 17 Corporation Street, Sheffield, 3, £5,542 (recommended).

Great Yarmouth, Norfolk.—Mechanical engineering services in new kitchen and foul-wash house at Northgate Hospital, for the East Anglian Regional Hospital Board: G. N. Haden and Sons, Ltd., 50 Prince of Wales Road, Norwich, £10,572 (recommended).

Mickleover, Derbys.—Extensions to heating and hot water services at The Pastures Hospital, for Sheffield Regional Hospital Board: R. Longden and Co., Ltd., Derwent Works, Plumpton Avenue, Derby, £6,091 (recommended).

Milford, Derbys. — Improvements to heating at Makeney House, for Sheffield Regional Hospital Board: Mellor, Bromley and Co., Ltd., St. Saviours Road East, Leicester, £9,349 (recommended).

HOUSING SCHEMES

Ampthill, Beds.—Fourteen bungalows and two houses at Forresters Close, Haynes, for R.D.C. C. A. Lewis, surveyor: Eames and Berrington, 10 Wood Lane, Cotton End, Bedford, £17,292.

Baldock, Herts.—Fifty-four Homeville traditional houses at Anchor Fields estate, for U.D.C.: Homeville Contractors, Ltd., Oxford.

Barnsley, Yorks.—One hundred houses, contract, S.H.4, for B.C.: Direct Labour, £127,334 (recommended, subject to Ministry approval).

Bedford. — Fifty-three houses and 28 garages (contract 62) and 55 houses and 48 garages (contract 63) at Brickhill, for B.C.: W. M. J. Bushby, Ltd., 30 High Street, Kempston, Bedford, £91,717 and £98,874, respectively (recommended, subject to Ministry approval).

Birmingham. — Following works, for City Council. A. G. Sheppard Fidler, city architect: Four dwellings, one single-storey shop and 18 lock-up garages, Slade Lane estate (contract 612a) — Direct Labour.

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£12,359; 180 dwellings, Newtown redevelopment area (contract 669/690)—George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £506,879; 220 dwellings and 60 garages, area, Shard End (contract 685)—George Stubbings, Ltd., 201 Streetly Road, Erdington, Birmingham, 23, £446,694; 81 two and four-storey dwellings, Unett Street Newtown redevelopment area (contract 689)—Alfred Langley, Ltd., Manor Farm Road, Tyseley, Birmingham, 11, £185,029; 32 dwellings and 47 garages, Queens Road, redevelopment area (contract 712)—Morris and Jacombs, Ltd., 71 Hobmoor Road, Small Heath, Birmingham, 10, £91,771; erection of a superintendent's house and alterations to Highbury Hall, Moseley (contract W.101/9)—A. G. Churcher (Birmingham), Ltd., 165-167 Lozells Road, Birmingham, 19, £13,786.

Blyth, Northumb.—Ten flats and maisonnettes at Coomassie Road (scheme 36B), for B.C. D. W. Foster, borough engineer: R. Sleightholme, Ltd., St. Oswin's Place, Tynemouth, Northumb., £16,423. Work commencing May.

Harrogate, Yorks.—Twenty single-bedroom flats at Grove House and Knaresborough Road estates, for B.C.: Selleck Nicholls and Co., Ltd., Hill House, East Hill, St. Austell, Corn., £21,480 (recommended).

Huntingdon. — Eight Homeville traditional bungalows at Alconbury, for R.D.C.: Pettits, Ltd., Godmanchester.

Magor and St. Mellons, Mon.—Aged persons' bungalows at Bassaleg and High Cross, for R.D.C. Powell and Alport, architects, 88 Cathedral Road, Cardiff—Taverner (Contractors), Ltd., 145 Stow Hill, Newport, £17,981.

Morley, Yorks.—Seventy-two Homeville traditional three-storey flats at The City redevelopment, for B.C.: Middleton and Co. (Leeds), Ltd., Wakefield.

Newport.—Aged persons' bungalows at Alway estate, for B.C. Johnson Blackett, borough architect: Taverner (Contractors), Ltd., 145 Stow Hill, Newport, £14,744.

Northumberland.—Following, for C.C.: Police house and office at North Charlton—Thos. Muckle and Sons, Rothbury. Work commencing April.

Police house and section station at Rothbury, and police house and office at Wark/Tyne—W. Brown and Son, Thropton, Rothbury, and W. M. Chaffey, Acomb, Hexham, respectively.

Penistone, Yorks.—Erection of 10 bungalows at Roper Lane, Thurgoland, near Sheffield. Noel Heppenstall, architect, 135 Armitage Road, Milnsbridge, Huddersfield: F. Dobson and Sons, Stonehurst, Sheffield Road, Hoyland Common, near Barnsley, £12,900. Work commencing April 1.

Romford, Essex.—One three-storey block of six flats at London Road/Lonsdale Avenue, for B.C.: S. R. Bryett, Ltd., Grays Farm, Church Elm Lane, Dagenham (recommended, extension of contract).

Rowley Regis, Staffs.—Fifty-two houses and 20 garages on the City Road frontage, Bury Hill estate, for B.C.: Direct Labour (recommended, subject to Ministry approval).

Walsall, Staffs. — Twelve houses at Woodwards Road, Alumwell estate, and three bungalows at Butts Street, for B.C.: J. Dorsett, 15 Commonside, Pelsall, Walsall, £17,040, and £4,000, respectively (recommended, subject to Ministry approval).

Wandsworth.—Erection of a two-storey block of eight dwellings and two flats and a four-storey block of eight maisonnettes at Haselrigge Road site, Clapham, for B.C.: William Moss and Sons, Ltd., North Circular Road, London, N.W.2, £47,889 (recommended).

Worcestershire.—Construction of 12½ miles of Bristol-Birmingham motorway, extending from the southern outskirts of Birmingham to a point about a mile north of Warndon for C.C. W. R. Thomson, county surveyor: A. Monk and Co., Ltd., Padgate, Warrington, Lancs., £3,860,335. The company are also expected to be awarded a £3,749,694 contract for a proposed further 15 miles of the motorway passing east of Worcester to join the Ross Spur.

MATERIALS AND SUPPLIES

Newcastle upon Tyne.—Supply of following for one year, for City Council: 1,930 tons of cement—Cement Marketing Co., Ltd., 27 Picton Place, Newcastle upon Tyne, £11,180; 2,000 tons sand and gravel—B. Dickinson and Sons, Old Hartley, Whitley Bay, £1,300; whinstone aggregate: 1,045 tons each — Amalgamated Roadstone Corporation, Ltd., Grainger House, Blackett Street, Newcastle upon Tyne, 1, Mark Appleby, Ltd., Alnwick, and Northumberland Whinstone Co., Ltd., Milburn House, Newcastle upon Tyne, £1,534 each; 750 tons Redstone chippings — Harden Quarry Co., Ltd., 47 Blackett Street, Newcastle upon Tyne, 1, £1,274 (recommended).

PLANT AND MECHANICAL TRANSPORT

Barnsley, Yorks.—Supply of a J.C.B. Hydra Digga/Loadall, for B.C.: Tate of Leeds, Ltd., New York Road, Leeds, 2, £2,354 (recommended).

Bradford, Yorks.—Supply of following, for City Council: Two Broomwade compressors—Wm. G. Search, Ltd., Market Mills, Whitehall Road, Leeds, 12, £2,000 (recommended, in lieu of previous tender); one 7-ton Commer tipper, six 18 cu. yd. Karrier dual-tip refuse collectors, five 10/12 cu. yd. Karrier dual-tip refuse collectors, and one Commer van—Thornton Engineering Co., Ltd., 150 Manningham Lane, Bradford, 8, £1,600, £13,410, £9,125 and £485, respectively (recommended).

Chipping Norton, Oxon.—One Karrier Bantam refuse collection vehicle, for B.C.: G. R. Hartwell, Ltd., London Road, Chipping Norton, £986 (recommended).

Deal, Kent.—Supply of a diesel driven portable air compressor with electric starter, for B.C.: Atlas Copco (Great Britain), Ltd., 7 Gayford Road, London, W.12, £797.

Exeter.—Supply of a 3-ton Karrier hydraulic tipping lorry, for City Council: Standfield and White, Ltd., 8 Sidwell Street, Exeter, £1,024 (recommended).

Islington.—Laying out sites of 13-33 Provence Street as a playground, for B.C.: E. H. Jackson, Ltd., 62a High Street, London, N.8, £3,359 (recommended).

PLAYING FIELDS, PARKS, ETC.

Bury.—Construction of bowling green and ancillary works at Hoyle Playing Fields, for B.C.: Maxwell M. Hart (Glasgow), Ltd., Corporation Street, Manchester.

Hornsey, Middx. — Land drainage, earth levelling, soiling and seeding, stage I, at Muswell Hill Sports Ground, for B.C.: H. L. Holdrup and Sons, Ltd., 139 Bells Hill, Barnet, Herts., £7,205. Work to commence April 1.

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RAILWAY ENGINEERING

British Railways.—Following contracts placed: London Midland Region:

Supply and erection of structural steelwork for new diesel maintenance shop at Newton Heath — Hoveringham Engineering Co., Ltd., Hoveringham, Nottingham.

Supply, fabrication and delivery of steelwork for bridge 118 and 127 on the St. Pancras to Bedford line—Francis Morton and Co., Ltd., Hamilton Ironworks, Garston, Liverpool, 19.

Patent glazing in the new diesel maintenance shop at Newton Heath—W. H. Heywood and Co., Ltd., Hope House, Great Peter Street, London, S.W.1.

Supply and fixing of insulated metal roof decking and wall cladding in the new diesel maintenance shop at Newton Heath —The Ruberoid Co., Ltd., Commonwealth House, 1-19 New Oxford Street, London, W.C.1.

New power signal box at Weaver Junction—Sir Alfred McAlpine and Son, Ltd., Hooton, Little Sutton, Wirral, Ches.

Reconstruction of Levenshulme, Heaton Chapel, Cheadle Hulme, Styal, Wilmslow and Holmes Chapel stations.—E B. Jones and Rawlinson, Ltd., 6 Leaf Square, Manchester, 6.

ROADS, BRIDGES AND SITE WORKS

Acton, Middx.—Construction of piled foundations for 39 flats and maisonnettes at Enfield Road, for B.C.: Soil Mechanics, Ltd., 65 Old Church Street, London, S.W.3, £5,525.

Acton, Middx. — Reinstatement of highways, for B.C.: J. Murphy and Sons, Ltd., 43 Charteris Road, N.4.

Basildon, Essex.—Re-laying of approximately 2,100 super. yd. of flagged paving, together with incidental works, at Wickford Vange and Basildon, for U.D.C.: Webb Contractors, Enfield, London, £1,109.

Cheadle, Staffs.—Construction of street works and sewers at Bridgewood Road, Blythe Mount housing site, Blythe Bridge, for R.D.C., comprising the construction of approximately 3,000 super. yd. of carriageway and footpaths and 650yd. of 6in. and 9in. sewers: Roy Beech (Contractors), Ltd., 9 Brook Street, Stoke-on-Trent, £7,669 (accepted); Abacon, Ltd., £9,006; F. H. M. Contractors, Ltd., £8,316; Clifford Henshall, Ltd., £8,765; Peter Prendergast, Ltd., £7,752; Staffs. Public Works Co., Ltd., £8,827; Tunney (Engineering), Ltd., £11,488.

Chigwell, Essex.—Various works at Fairview Road, for U.D.C., comprising approximately 270 lin. yd. surface water sewer, carriageway drainage, 680 lin. yd. kerbing, 1,970 sq. yd. carriagway, 730 sq. yd. footways: L. W. Bryant and Co., 12 Park View Gardens, Grays, Essex, £5,172

Coventry. — Construction of soil-cement runway, taxiway, etc., at Baginton Aerodrome, for City Council. G. Berry, city engineer and surveyor: G. Percy Trentham, Ltd., Pangbourne, Reading, Berks., £156,138.

Cumberland.—Improvement at Speetgill on Lilly Hall-Cockermouth-Thursby class 1 road A.595, for C.C. Works comprise the widening and realignment of the existing carriageway from a point 150yd. east of the junction with the Penrith Wigton class II road B.5305 at Street, to a point 100yd. west of the junction with the Wigton-Brackenthwaite unclassified road including the construction of new carriageway on embankment, for which 50,000 cu. yd. of imported fill material is required, the construction of a reinforced concrete box culvert 134ft. long, drainage, fencing and ancillary works. F. L. Broughton, county surveyor: Michael Thompson (Public Works Contractors and Engineers), Ltd., St. Miriams Road, Upperby, Carlisle, £38,431. Work commenced.

Eastbourne, Sussex.—Excavation of chalk from two areas of land adjacent to East Dean Road, for B.C.: S. M. Tidy (Public Works), Ltd., 161 Preston Road, Brighton, 6, £5,067 (recommended).

Exeter. — Footpath and ancillary works at Chestnut Avenue and Bovemoors Lane and improvement of the Countess Wear Roundabout, for City Council: W. J. Clemens and Co., East Budleigh, Budleigh Salterton, £1,726 and £18,719, respectively (recommended).

Farnham, Surrey. — Construction of Victoria Road car park (phase II), for U.D.C.: Geoffrey Poole, engineer and surveyor: Allmacadams, Ltd., 332 Brighton Road, Croydon, £12,893 (subject to Ministry approval).

Farnham, Surrey.—Road and drainage works at Lower South View, for U.D.C.: Austen Shrives, Ltd., Orestan Lane, Effingham, Surrey, £2,539.

Harrogate, Yorks.—Following works, for B.C.: Making-up of Firs Drive, Firs Gate and Firs Close: J. H. and J. C. Elliott, Ltd., 45 St. Olaves Road, York, £3,286, £1,456 and £634, respectively; Firs Avenue—W. Slater, £1,401; surfacing Skipton Road from King's Road to Regent Avenue—John Hinchcliff and Son, Ltd., Barnsley Road, South Elmsall, Pontefract, 4s. 3d. per sq. yd. of surface and £5 5s. per ton of material for extra depth (recommended).

Hendon, Middx.—Following, for B.C.: Footpath improvement in Cool Oak Lane—Charles Carter (Childs Hill), Ltd., 119 Granville Road, London, N.W.2, £1,342; resurfacing of carriageway and minor footpath improvements in Lawrence Street—Sparkes (Construction), Ltd., Ludlow Road, Feltham, £5,691; improvement of a section of Wise Lane between Daws Lane and Page Street—Taroads, Ltd., 21 Old Bailey, E.C.4, £5,262 (recommended).

Islington.—Construction of garage crossings in various roads, and reinstatement of footway trenches, for B.C.: J. H. Hitchin, 23 St. Mary's Grove, London, N.1, £1,114 and £6,571, respectively (recommended).

Lanarkshire.—Reconstruction of the Crawford and Abington section of the London-Carlisle-Glasgow-Inverness trunk road (A.74), contract 3, for C.C.: Col. T. U. Wilson, county surveyor: Murdoch Mackenzie, Ltd., Draffen Street, Motherwell, Lanarks, £600,179.

London.—Road works and construction of a vehicular underpass and pedestrian subways in connection with the Hyde Park Corner to Marble Arch Improvement Scheme, for L.C.C.: Cubitts-Fitzpatrick-Shand, Ltd., 1 Queen Anne's Gate, London, S.W.1, £3,000,069 (accepted); John Laing and Son, Ltd., £3,044,927; Pauling and Co., Ltd., £3,148,212; Higgs and Hill, Ltd., £3,148,757; Taylor Woodrow Construction, Ltd., £3,233,633; John Mowlem and Co., Ltd., £3,256,470; Richard Costain, Ltd., £3,337,482; W. and C. French, Ltd., £3,357,359; Trollope and Colls, Ltd., £3,366,034; Edmund Nuttall, Sons and Co. (London), Ltd., £3,546,706. The chief engineer's comparable estimate was £3,376,610.

Tunnelling work for the duplication of Blackwall Tunnel, Poplar to Greenwich, for L.C.C.: Balfour Beatty and Co., Ltd., 66 Queen Street, London, E.C.4, £3,888,299 (accepted); A. Waddington and Son, Ltd., £4,140,611; John Mowlem and Co., Ltd., £4,156,293; Edmund Nuttall, Sons and Co. (London), Ltd., £4,263,171; Charles Brand and Son, Ltd., £4,433,884; Kinnear, Moodie and Co., Ltd., £4,823,099.

Maidenhead, Berks.—Following works, for B.C.: Construction of garage forecourts at Larchfield estate—W. and J. Glossop, Ltd., 123 East Hill, London, S.W.18, £2,644; private street works at Highway Road—C. Prior and Son, Braywick, Maidenhead, £6,703.

Meopham, Kent. — Construction of a lay-by, including excavation, ashing, hardcoring and tarmacadam at White Post Lane, Culverstone, for Sub-postmaster: Hodsons, Ltd., 17 Wrotham Road, Gravesend.

Oxford. — Construction of Church Street car park, for City Council: Amey's Asphalt Co., Ltd., Sutton Courtenay, Abingdon, Berks., £3,131 (recommended).

Penistone, Yorks.—Service road and footpaths at Roper Lane, Thurgoland, near Sheffield.

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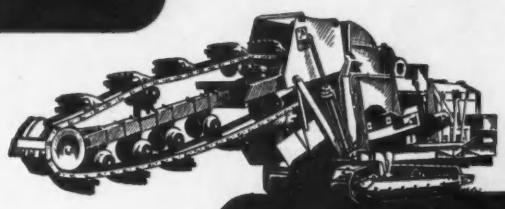

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£12,359; 180 dwellings, Newtown redevelopment area (contract 669/690)—George Wimpey and Co., Ltd., Hammersmith Grove, London, W.6, £506,879; 220 dwellings and 60 garages, area, Shard End (contract 685)—George Stubbings, Ltd., 201 Streetly Road, Erdington, Birmingham, 23, £446,694; 81 two and four-storey dwellings, Unett Street Newtown redevelopment area (contract 689)—Alfred Langley, Ltd., Manor Farm Road, Tyseley, Birmingham, 11, £185,029; 32 dwellings and 47 garages, Queens Road, redevelopment area (contract 712)—Morris and Jacombs, Ltd., 71 Hobmoor Road, Small Heath, Birmingham, 10, £91,771; erection of a superintendent's house and alterations to Highbury Hall, Moseley (contract W.101/9)—A. G. Churcher (Birmingham), Ltd., 165-167 Lozells Road, Birmingham, 19, £13,786.

Blyth, Northumb.—Ten flats and maisonnettes at Coomassie Road (scheme 36B), for B.C. D. W. Foster, borough engineer: R. Sleightholme, Ltd., St. Oswin's Place, Tynemouth, Northumb., £16,423. Work commencing May.

Harrogate, Yorks.—Twenty single-bedroom flats at Grove House and Knaresborough Road estates, for B.C.: Selleck Nicholls and Co., Ltd., Hill House, East Hill, St. Austell, Corn., £21,480 (recommended).

Huntingdon. — Eight Homeville traditional bungalows at Alconbury, for R.D.C.: Pettits, Ltd., Godmanchester.

Magor and St. Mellons, Mon.—Aged persons' bungalows at Bassaleg and High Cross, for R.D.C. Powell and Alport, architects, 88 Cathedral Road, Cardiff—Taverner (Contractors), Ltd., 145 Stow Hill, Newport, £17,981.

Morley, Yorks.—Seventy-two Homeville traditional three-storey flats at The City redevelopment, for B.C.: Middleton and Co. (Leeds), Ltd., Wakefield.

Newport.—Aged persons' bungalows at Alway estate, for B.C. Johnson Blackett, borough architect: Taverner (Contractors), Ltd., 145 Stow Hill, Newport, £14,744.

Northumberland.—Following, for C.C.: Police house and office at North Charlton—Thos. Muckle and Sons, Rothbury. Work commencing April.

Police house and section station at Rothbury, and police house and office at Wark/Tyne—W. Brown and Son, Thropton, Rothbury, and W. M. Chaffey, Acomb, Hexham, respectively.

Penistone, Yorks.—Erection of 10 bungalows at Roper Lane, Thurgoland, near Sheffield. Noel Heppenstall, architect, 135 Armitage Road, Milnsbridge, Huddersfield: F. Dobson and Sons, Stonehurst, Sheffield Road, Hoyland Common, near Barnsley, £12,900. Work commencing April 1.

Romford, Essex.—One three-storey block of six flats at London Road/Lonsdale Avenue, for B.C.: S. R. Bryett, Ltd., Grays Farm, Church Elm Lane, Dagenham (recommended, extension of contract).

Rowley Regis, Staffs.—Fifty-two houses and 20 garages on the City Road frontage, Bury Hill estate, for B.C.: Direct Labour (recommended, subject to Ministry approval).

Walsall, Staffs. — Twelve houses at Woodwards Road, Alumwell estate, and three bungalows at Butts Street, for B.C.: J. Dorsett, 15 Commonside, Pelsall, Walsall, £17,040, and £4,000, respectively (recommended, subject to Ministry approval).

Wandsworth.—Erection of a two-storey block of eight dwellings and two flats and a four-storey block of eight maisonnettes at Haselrigge Road site, Clapham, for B.C.: William Moss and Sons, Ltd., North Circular Road, London, N.W.2, £47,889 (recommended).

Worcestershire.—Construction of 12½ miles of Bristol-Birmingham motorway, extending from the southern outskirts of Birmingham to a point about a mile north of Warndon for C.C. W. R. Thomson, county surveyor: A. Monk and Co., Ltd., Padgate, Warrington, Lancs., £3,860,335. The company are also expected to be awarded a £3,749,694 contract for a proposed further 15 miles of the motorway passing east of Worcester to join the Ross Spur.

MATERIALS AND SUPPLIES

Newcastle upon Tyne.—Supply of following for one year, for City Council: 1,930 tons of cement—Cement Marketing Co., Ltd., 27 Picton Place, Newcastle upon Tyne, £11,180; 2,000 tons sand and gravel—B. Dickinson and Sons, Old Hartley, Whitley Bay, £1,300; whinstone aggregate: 1,045 tons each — Amalgamated Roadstone Corporation, Ltd., Grainger House, Blackett Street, Newcastle upon Tyne, 1, Mark Appleby, Ltd., Alnwick, and Northumberland Whinstone Co., Ltd., Milburn House, Newcastle upon Tyne, £1,534 each; 750 tons Redstone chippings — Harden Quarry Co., Ltd., 47 Blackett Street, Newcastle upon Tyne, 1, £1,274 (recommended).

PLANT AND MECHANICAL TRANSPORT

Barnsley, Yorks.—Supply of a J.C.B. Hydra Digga/Loadall, for B.C.: Tate of Leeds, Ltd., New York Road, Leeds, 2, £2,354 (recommended).

Bradford, Yorks.—Supply of following, for City Council: Two Broomwade compressors—Wm. G. Search, Ltd., Market Mills, Whitehall Road, Leeds, 12, £2,000 (recommended, in lieu of previous tender); one 7-ton Commer tipper, six 18 cu. yd. Karrier dual-tip refuse collectors, five 10/12 cu. yd. Karrier dual-tip refuse collectors, and one Commer van—Thornton Engineering Co., Ltd., 150 Manningham Lane, Bradford, 8, £1,600, £13,410, £9,125 and £485, respectively (recommended).

Chipping Norton, Oxon.—One Karrier Bantam refuse collection vehicle, for B.C.: G. R. Hartwell, Ltd., London Road, Chipping Norton, £986 (recommended).

Deal, Kent.—Supply of a diesel driven portable air compressor with electric starter, for B.C.: Atlas Copco (Great Britain), Ltd., 7 Gayford Road, London, W.12, £797.

Exeter.—Supply of a 3-ton Karrier hydraulic tipping lorry, for City Council: Standfield and White, Ltd., 8 Sidwell Street, Exeter, £1,024 (recommended).

Islington.—Laying out sites of 13-33 Provence Street as a playground, for B.C.: E. H. Jackson, Ltd., 62a High Street, London, N.8, £3,359 (recommended).

PLAYING FIELDS, PARKS, ETC.

Bury.—Construction of bowling green and ancillary works at Hoyle Playing Fields, for B.C.: Maxwell M. Hart (Glasgow), Ltd., Corporation Street, Manchester.

Hornsey, Middx. — Land drainage, earth levelling, soiling and seeding, stage I, at Muswell Hill Sports Ground, for B.C.: H. L. Holdrup and Sons, Ltd., 139 Bells Hill, Barnet, Herts., £7,205. Work to commence April 1.

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RAILWAY ENGINEERING

British Railways.—Following contracts placed: London Midland Region:

Supply and erection of structural steelwork for new diesel maintenance shop at Newton Heath — Hoveringham Engineering Co., Ltd., Hoveringham, Nottingham.

Supply, fabrication and delivery of steelwork for bridge 118 and 127 on the St. Pancras to Bedford line—Francis Morton and Co., Ltd., Hamilton Ironworks, Garston, Liverpool, 19.

Patent glazing in the new diesel maintenance shop at Newton Heath—W. H. Heywood and Co., Ltd., Hope House, Great Peter Street, London, S.W.1.

Supply and fixing of insulated metal roof decking and wall cladding in the new diesel maintenance shop at Newton Heath —The Ruberoid Co., Ltd., Commonwealth House, 1-19 New Oxford Street, London, W.C.1.

New power signal box at Weaver Junction—Sir Alfred McAlpine and Son, Ltd., Hooton, Little Sutton, Wirral, Ches.

Reconstruction of Levenshulme, Heaton Chapel, Cheadle Hulme, Styal, Wilmslow and Holmes Chapel stations.—E B. Jones and Rawlinson, Ltd., 6 Leaf Square, Manchester, 6.

ROADS, BRIDGES AND SITE WORKS

Acton, Middx.—Construction of piled foundations for 39 flats and maisonnettes at Enfield Road, for B.C.: Soil Mechanics, Ltd., 65 Old Church Street, London, S.W.3, £5,525.

Acton, Middx. — Reinstatement of highways, for B.C.: J. Murphy and Sons, Ltd., 43 Charteris Road, N.4.

Basildon, Essex.—Re-laying of approximately 2,100 super. yd. of flagged paving, together with incidental works, at Wickford Vange and Basildon, for U.D.C.: Webb Contractors, Enfield, London, £1,109.

Cheadle, Staffs.—Construction of street works and sewers at Bridgewood Road, Blythe Mount housing site, Blythe Bridge, for R.D.C., comprising the construction of approximately 3,000 super. yd. of carriageway and footpaths and 650yd. of 6in. and 9in. sewers: Roy Beech (Contractors), Ltd., 9 Brook Street, Stoke-on-Trent, £7,669 (accepted); Abacon, Ltd., £9.006; F. H. M. Contractors, Ltd., £8,316; Clifford Henshall, Ltd., £8,765; Peter Prendergast, Ltd., £7,752; Staffs. Public Works Co., Ltd., £8,827; Tunney (Engineering), Ltd., £11,488.

Chigwell, Essex.—Various works at Fairview Road, for U.D.C., comprising approximately 270 lin. yd. surface water sewer, carriageway drainage, 680 lin. yd. kerbing, 1,970 sq. yd. carriagway, 730 sq. yd. footways: L. W. Bryant and Co., 12 Park View Gardens, Grays, Essex, £5,172

Coventry. — Construction of soil-cement runway, taxiway, etc., at Baginton Aerodrome, for City Council. G. Berry, city engineer and surveyor: G. Percy Trentham, Ltd., Pangbourne, Reading, Berks., £156,138.

Cumberland.—Improvement at Speetgill on Lilly Hall-Cockermouth-Thursby class 1 road A.595, for C.C. Works comprise the widening and realignment of the existing carriageway from a point 150yd. east of the junction with the Penrith Wigton class II road B.5305 at Street, to a point 100yd. west of the junction with the Wigton-Brackenthwaite unclassified road including the construction of new carriageway on embankment, for which 50,000 cu. yd. of imported fill material is required, the construction of a reinforced concrete box culvert 134ft. long, drainage, fencing and ancillary works. F. L. Broughton, county surveyor: Michael Thompson (Public Works Contractors and Engineers), Ltd., St. Miriams Road, Upperby, Carlisle, £38,431. Work commenced.

Eastbourne, Sussex.—Excavation of chalk from two areas of land adjacent to East Dean Road, for B.C.: S. M. Tidy (Public Works), Ltd., 161 Preston Road, Brighton, 6, £5,067 (recommended).

Exeter. — Footpath and ancillary works at Chestnut Avenue and Bovemoors Lane and improvement of the Countess Wear Roundabout, for City Council: W. J. Clemens and Co., East Budleigh, Budleigh Salterton, £1,726 and £18,719, respectively (recommended).

Farnham, Surrey. — Construction of Victoria Road car park (phase II), for U.D.C.: Geoffrey Poole, engineer and surveyor: Allmacadams, Ltd., 332 Brighton Road, Croydon, £12,893 (subject to Ministry approval).

Farnham, Surrey.—Road and drainage works at Lower South View, for U.D.C.: Austen Shrives, Ltd., Orestan Lane, Effingham, Surrey, £2,539.

Harrogate, Yorks.—Following works, for B.C.: Making-up of Firs Drive, Firs Gate and Firs Close: J. H. and J. C. Elliott, Ltd., 45 St. Olaves Road, York, £3,286, £1,456 and £634, respectively; Firs Avenue—W. Slater, £1,401; surfacing Skipton Road from King's Road to Regent Avenue—John Hinchcliff and Son, Ltd., Barnsley Road, South Elmsall, Pontefract, 4s. 3d. per sq. yd. of surface and £5 5s. per ton of material for extra depth (recommended).

Hendon, Middx.—Following, for B.C.: Footpath improvement in Cool Oak Lane—Charles Carter (Childs Hill), Ltd., 119 Granville Road, London, N.W.2, £1,342; resurfacing of carriageway and minor footpath improvements in Lawrence Street—Sparkes (Construction), Ltd., Ludlow Road, Feltham, £5,691; improvement of a section of Wise Lane between Daws Lane and Page Street—Taroads, Ltd., 21 Old Bailey, E.C.4, £5,262 (recommended).

Islington.—Construction of garage crossings in various roads, and reinstatement of footway trenches, for B.C.: J. H. Hitchin, 23 St. Mary's Grove, London, N.1, £1,114 and £6,571, respectively (recommended).

Lanarkshire.—Reconstruction of the Crawford and Abington section of the London-Carlisle-Glasgow-Inverness trunk road (A.74), contract 3, for C.C.: Col. T. U. Wilson, county surveyor: Murdoch Mackenzie, Ltd., Draffen Street, Motherwell, Lanarks, £600,179.

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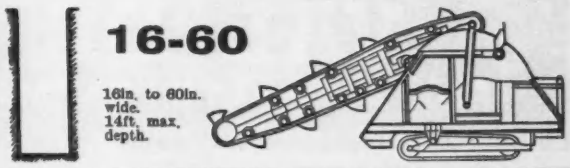
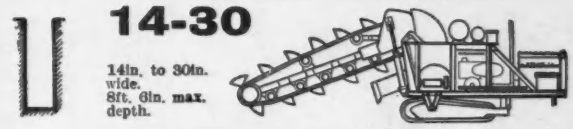


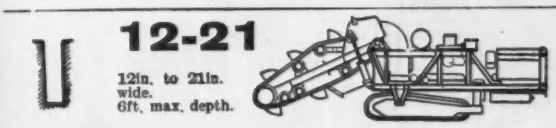
16-60

16in. to 60in. wide. 14ft. max. depth.



14-30

14in. to 30in. wide. 8ft. 6in. max. depth.



12-21

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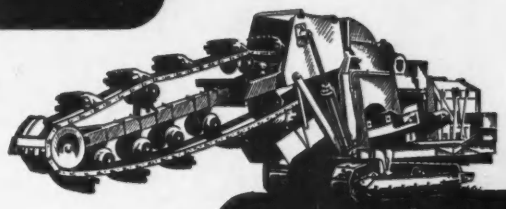

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M

for R.D.C. Noel Heppenstall, architect, 135 Armitage Road, Milnsbridge, Huddersfield: H. C. W. Makings, Ltd., The Croft, Hoylandswaine, near Sheffield, £1,750. Work commencing April 1.

Rawtenstall, Lancs.—Resurfacing and reconstruction of trunk road, A.56, Burnley Road, Loveclough, for B.C., comprising laying of some 3,117 super. yd. of 2½in. single-course hot rolled asphalt also superelevation works in premixed waterbound macadam, the surfacing to be of some 110 tons of bituminous macadam base course and 1,550 super. yd. of 1½ hot rolled asphalt wearing course: Val de Travers Asphalte, Ltd., Mode Wheel Road, Salford, 5, £3,100.

Romford, Essex.—Construction of drives and footpaths, etc., at King George's Field, Lawns Recreation Ground, Rise Park, Dagnam Park and North Hill Recreation Ground, and provision of a footpath on the western side of Havering Road, for B.C.: Scott Hale (Contractors), Ltd., 47 Globe Road, Hornchurch, £9,469 and £2,452 respectively (recommended).

Rotherham, Yorks.—Preparation of garage sites at Flanderwell Lane, Bramley, Moorbridge Crescent, Brampton Bierlow, West Park Drive, Swallownest and Moorfield Grove, Ravenfield, for R.D.C.: T. Roberts (Haulage Contractors), Ltd., The Gables, Lodge Lane, Aston Common, Aston, Sheffield, £1,284.

Southend-on-Sea, Essex. — Paved areas at Hamstel School, and works incidental thereto, for B.C. P. F. Burridge, borough architect: Constable, Hart and Co., Ltd., Lion House, Richmond, Surrey, £1,256.

Sunbury-on-Thames, Middx. — Making-up Kempton Avenue, for U.D.C.: Mexfield Building Co., Ltd., 66 Pembroke Road, Kensington, W.8, £5,427.

Surrey.—Widening a section of London-Brighton A.23 trunk road at Horley, for C.C.: Surface Maintenance Services, Ltd., Durham House, 124 Old Christchurch Road, Bournemouth, £23,634.

Tonbridge, Kent.—Following, for R.D.C.: (1) Twyford Road, Hadlow—1,750 sq. yd. concrete carriageway, and ancillary works; (2) The Grove, Pembury—600 sq. yd. new concrete carriageway, improvements to existing road, sewage pumping station and ancillary works. M. W. Clark, engineer and surveyor: (1) Crouch and Leach (East Peckham), Ltd., 4 Brunswick Square, East Peckham, £3,493; (2) H. Minto and Co., Ltd., 21 Lower Fant Street, Maidstone, £5,758. Work commenced.

Uttoxeter, Staffs.—Road and sewer works at Heath House estate, for U.D.C.: F. H. M. Contractors, Ltd., Brook Lane, Newcastle under Lyme, £8,807 (subject to Ministry approval).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Bagshot, Surrey.—Bisley, Queens Road sewerage, contract 4, for R.D.C. D. Balfour and Sons, engineers, 131 Victoria Street, Westminster, S.W.1: T. H. Contractors, Ltd., 300 Chiswick High Road, London, W.4, £15,959.

Ballymoney, Antrim.—Construction of Dervock sewage treatment works, for R.D.C.: Hartleys (Stoke-on-Trent), Ltd., Kearsley Chambers, Stoke-on-Trent, Staffs, £2,636.

Brixworth, Northants.—Construction of extensions to the sewage disposal works at Moulton, for R.D.C., consisting of screening, storm overflow and recorder chambers, settling tank, two 52ft. 6in. dia. percolating filters, humus tank, storm water tank, pumping station, sludge storage lagoon and attendant pipework, drains, paths and roads, etc. Pick, Everard, Keay and Gimson, consulting engineers, 6 Millstone Lane, Leicester: Tandy and Richmond, Ltd., Pitsford Brickworks, near Pitsford, Northampton, £16,534. Work commencing April.

Hawarden, Flints. — Construction of Higher Kinnerton sewerage and sewage disposal, for R.D.C., comprising the provision, laying and jointing of about 420 lin. yd. of 9in. dia. and 750 lin. yd. of 6in. dia. glazed stoneware pipes and 180 lin. yd. of 6in. dia. iron pipes, together with the construction of a small sewage disposal works, consisting of primary and secondary tanks, filter beds and sludge drying beds. The works are situated about five miles west of Chester. Elliott and Brown, consulting engineers, Stanley House, Pelham Road, Nottingham: Whitley Bros., Ltd., Holt Road, Wrexham, £24,209.

Hendon, Middx.—Construction of surface water relief sewer in Ravenscroft Avenue, for B.C.: Howard Farrow, Ltd., 1 Russell Parade, N.W.11, £5,581.

Long Eaton, Derbys.—Construction of 815 lin. yd. of 12in. to 27in. diameter concrete pipe surface waters sewers, together with 10 manholes, siphon under the Erewash Canal, and outfall to the River Erewash, for U.D.C.: Francis Turner, engineer and surveyor: E. Somerfield and Sons, Ltd., Seymour Road, West Bridgford, Nottingham, £15,899.

Marlow, Bucks.—Construction of nine sludge drying beds, each approx. 50ft. x 20ft., with concrete floors and concrete walls, together with other works incidental thereto, at the sewage disposal works, contract 7, for U.D.C.: A. P. I. Cotterell and Son, consulting engineers, 54 Victoria Street, Westminster, London, S.W.1; Soil Engineering and Contracting Co., Ltd., 54 Victoria Street, London, S.W.1, (recommended, subject to Ministry approval).

Ploughley, Oxon.—Providing and laying approximately 2,600yd. of 15in. diameter asbestos-cement pumping main between War Department boundaries of Arncott pumping station and Merton sewage disposal works, near Bicester, for R.D.C. J. W. Martin, engineer: The United Kingdom Construction and Engineering Co., Ltd., Hammond Road, Kirkby Industrial Estate, Liverpool, £13,102. Work to commence April.

Romford, Essex. — Land drainage works at Dagenham Park, for B.C.: S. C. Stacey and Sons, Lawn Lane, Springfield, Chelmsford, £2,121 (recommended).

Skipton, Yorks.—Hebden sewerage and sewage disposal scheme, for R.D.C., comprising construction of approximately 2,278 lin. yd. of 6in. salt-glazed ware sewers, 154 lin. yd. 6in. cast-iron sewers and 47 brick manholes, together with the new sewage disposal works, comprising detritus tanks, percolating filters, storm water tanks, humus tanks, sludge drying bays and other appurtenant works. T. Yeadon, engineer and surveyor: J. Thurogood, Church Gates, Gisburn, near Clitheroe, Lancs., £14,300 (accepted): Laeven, Ltd., £14,724; Talson Construction, Ltd., £16,086; W. G. Birch, Ltd., £16,612; B. B. Kirk and Co., Ltd., £16,767; A. Brett, Ltd., £17,077; P. J. Mangan and Co., Ltd., £17,478; Matrac, Ltd., £20,000. Work commencing May.

Torrington, Devon.—Following works, for R.D.C. Harvey, McGill and Hayes, consulting engineers, 8 Richmond Road, Exeter: Petrockstow sewerage and sewage disposal scheme, comprising the laying of 2,149 lin. yd. of 6in. glazed stoneware sewers, together with concrete manholes, the construction of a sewage disposal works, consisting of settlement tanks, filter, humus tank, sludge drying beds, and all ancillary works—C. P. Unwin and Sons, Ltd., 33 St. Peter Street, Tiverton, £18,821 (accepted); J. E. Stacey and Co. Ltd., £19,583; Devon Contractors, Ltd. £19,633; E. C. Vanstone, £20,109; Wm. J. Clemens and Co., Ltd., £21,734; Grey, Conoley and Co., Ltd., £22,174.

Merton sewerage and sewage disposal scheme, comprising the laying of 2,474 lin. yd. of 6in. glazed stoneware sewers, 230 lin. yd. of 4in. spun-iron rising main, together with concrete manholes, and the construction of a pumping station and a sewage disposal works, consisting of settlement tanks, filter, humus tank, sludge drying beds, and all ancillary works: Arthur A. Beer, Meadowville Works, Northam Road, Bideford, £21,864 (accepted); C. P. Unwin and Sons, Ltd., £22,464; Wm. J.

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Clemens and Co., Ltd., £23,069; Devon Contractors, Ltd., £23,306; J. E. Stacey and Co., Ltd., £23,650; E. C. Vanstone, £23,812; Gray, Conoley and Co., £27,213.

Wandsworth.—Reconstruction of about 634yd. of 24in. to 39in. sewer at Drewstead Road, S.W.16, for B.C.: John Sugrue and Sons, Ltd., 194 Kilburn High Road, London, N.W.6, £20,039 (recommended); P. Lavelle, Ltd., £23,639; Coffey and Son, Ltd., £26,867; J. J. Curran, Ltd., £31,881; J. E. Billings and Co., Ltd., £32,208; Edward H. Jackson, Ltd., £34,141; Tierney and Maguire, Ltd., £34,161; D. R. Paterson, Ltd, £36,982.

Witney, Oxon.—Main drainage of Eynsham, W24/1 contract one, for R.D.C., comprising the laying of approx. one mile of small dia. sewers, the construction of three sewage pumping stations, a sewage disposal works, and other ancillary works. Howard Humphreys and Partners, consulting engineers, Victoria Station House, Victoria Street, Westminster, S.W.1: Tilbury Construction Co., Ltd., Ruscombe Works, Twyford, Berks., £67,149. Work commencing April.

STREET LIGHTING

Leominster, Heres. — Supply, erection and wiring of 72 concrete and seven steel lamp columns (class A), and 13 brackets, complete with 140-watt sodium discharge lanterns, capacitors, auto transformers, time switches and fuses, for B.C.: Atlas Lighting, Ltd., Thorn House, Upper St. Martin's Lane, London, W.C.2, £6,339.

GOVERNMENT CONTRACTS

Admiralty.—Particulars of contracts, over £1,000 in value, placed by Navy Works Department:

Hampshire: flooring—Philips Flooring Co., Ltd., London, N.1.

Monmouthshire: road resurfacing—Western Asphalte and Tar Paving Co., Ltd., Bristol.

Fifeshire: Redecking—J. R. and A. Adam, Ltd., Lochgelly; erection of chain link fencing—J. R. and A. Adam, Ltd., Lochgelly.

Dorset: Building—Staverton Contractors, Ltd., Totnes.

Durham: Removal of dolphins and brow—Gustavus Bailey, Ltd., Newcastle.

Air Ministry.—Contracts to the value of £500 or over for the week ended March 11:

Building work: London Airport, Middlesex—Taylor Woodrow Construction, Ltd., Ruislip Road Southall, Middlesex; Bampton Park, Huntingdonshire—A. J. G. Potter and Sons, Ltd., Stanwick, Wellingborough, Northants.; Wattisham, Suffolk—Sadler and Sons, P.O. Box 15, Richmond Road, Ipswich, Suffolk.

Road construction and mast foundations: Mormond Hill, Aberdeenshire—George Wimpey and Co., Ltd., 37 Drumsheugh Gardens, Edinburgh, 3.

Artificer's work: Hartland Point, Devon—R. Harris and Son (Builders), Ltd., Orchard Road, Barnstaple, North Devon; St. Athan, (Glamorgan), etc.—Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, London, S.E.1; St. Eval (Cornwall), etc.—G. E. Wallis and Sons, Ltd., 25 Boscawen Street, Truro, Cornwall.

Metropolitan Police.—Contracts recently placed include:

Internal redecorations: Bowfair, Fairfield Road, London, E.3—R. Woollaston and Co., £665.

Ministry of Works.—Contracts placed for week ended March 5:

Devonshire: Head Post Office, garage and workshop, Okehampton — erection — John Garrett and Son, Ltd., Embankment Lane, Princess Rock, Plymouth; Post Office engineering depot and garage, Exeter—adaptations—Soper and Ayers, Ltd., 64a Magdalen Street, Exeter.

Kent: Telephone exchange, Tunbridge Wells—demolition—Willment Bros., Ltd., 462 London Road, Isleworth, Middx.

Lanarkshire: Department of Health for Scotland, State Hospital, Carstairs—internal repainting—J. C. Cooper, 108 Cadzow Street, Hamilton; Department of Health for Scotland, State Institution, Carstairs—Maintenance of grounds—Braidbar Nurseries, 28 Fenwick Road, Giffnock, Glasgow.

London: Joint Office Building, Audit House, Victoria Embankment, London, E.C.4—central heating, etc.—C. J. Jefferies, Ltd., 149a Lancaster Road, London, W.11; Sub-District Office, Longmead Road, Tooting, London, S.W.17—erection—James Carmichael (Contractors), Ltd., 331 Trinity Road, Wandsworth, London, S.W.17.

Middlesex: Royal Parks Refreshment Pavilion, Bushy Park, Hampton Court—alteration and decorations—Herbert and Herbert, 155 Clapham Park Road, London, S.W.4.

Northumberland: Ministry of Pensions and National Insurance, Benton—extension—A. Reynolds and Co., 8 Cottenham Street, Newcastle.

Warwickshire: Branch Post Office, Steelhouse Lane, Birmingham—fitting out of public office—A. J. Gupwell (Shopfitters), Ltd., 123 Bradford Street, Birmingham, 12.

Wiltshire: Ministry of Supply, Sevenhampton—repairs to roofs—Ruberoid Co., Ltd., 1-19 New Oxford Street, London, W.C.1.

Worcestershire: Automatic Telephone Exchange, Bristol Road, South Rubery—erection—D. B. Evans (Bilston), Ltd., Oxford Street, Bilston, Staffs.

Post Office.—Contracts for duct laying, etc., works to the value of £500 and over placed during the week ended March 12:

Ashe Bros., 7 Marvell Avenue, Hayes, Middx.; J. E. Billings and Co., Ltd., 54 Beddington Lane, Croydon, Surrey; P. J. Byrnes, 168 St. Michaels Hill, Cotham, Bristol, 2; C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; James Cooper (Construction), Ltd., 28 Kensington Church Street, London, W.8; W. and C. French, Ltd. 50 Epping New Road, Buckhurst Hill, Essex; Jennings and Geary (Contractors), 10 Fortfield Road, Knowle, Bristol, 4; M. McIntyre, 109 Bath Street, Ilkeston, Derbys.; McNicholas Construction Co., Ltd., 31a Cricklewood Broadway, London, N.W.2; Mullen O'Dea and Co., 145 Otley Old Road, Leeds, 16; J. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The North Midland Construction Co., Ltd., Portland Works, Daybrook, Nottingham; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; J. P. Philbin, 14 High Street, Normanby, Middlesbrough, Yorks.; William Press and Son, Ltd., 22 Queen Anne's Gate, Westminster, London, S.W.1; F. Shepherd and Son, Ltd., Scarborough, Yorks.; George Taylor (Wolverhampton), Ltd., The Viewlands, Cross Road, Albrighton, Wolverhampton, Staffs.; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8.

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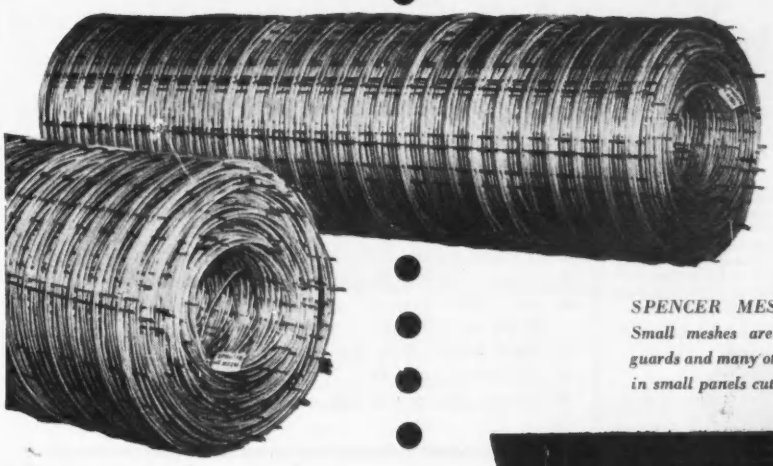

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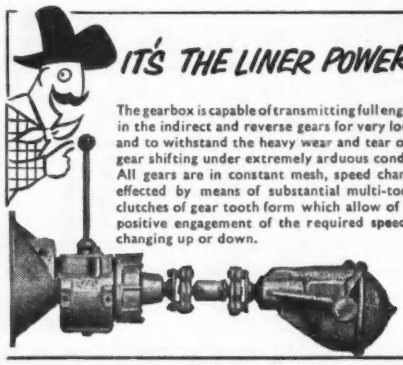

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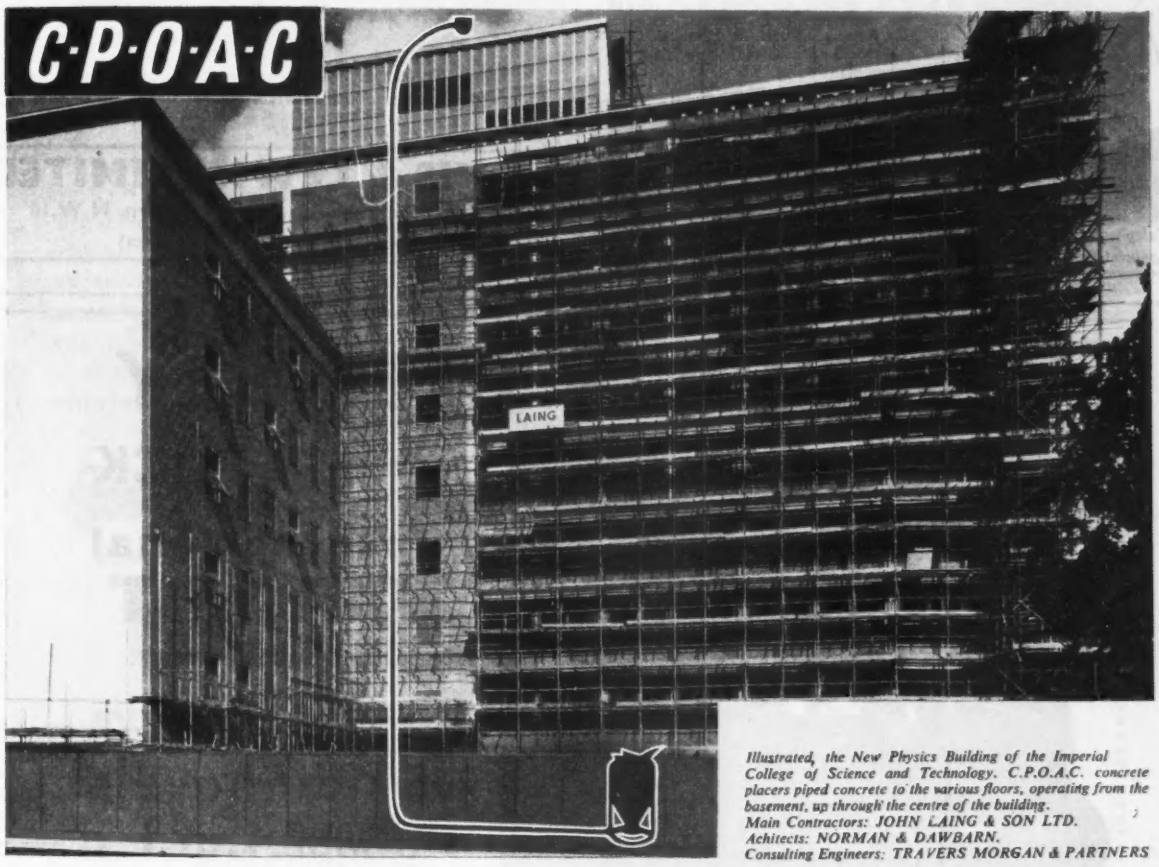

Illustrated, the New Physics Building of the Imperial College of Science and Technology. C.P.O.A.C. concrete placers piped concrete to the various floors, operating from the basement, up through the centre of the building.
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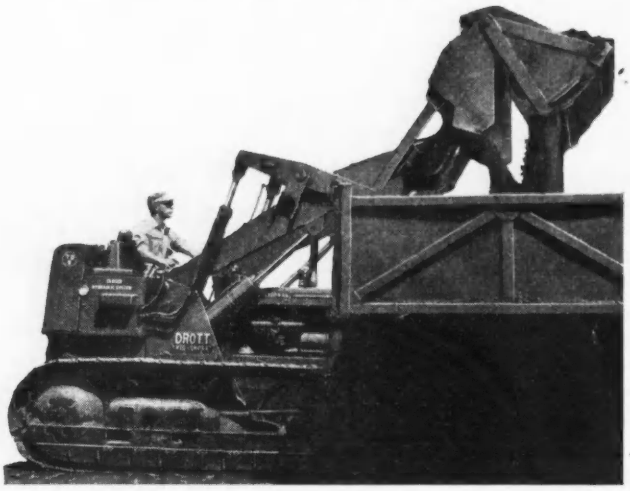

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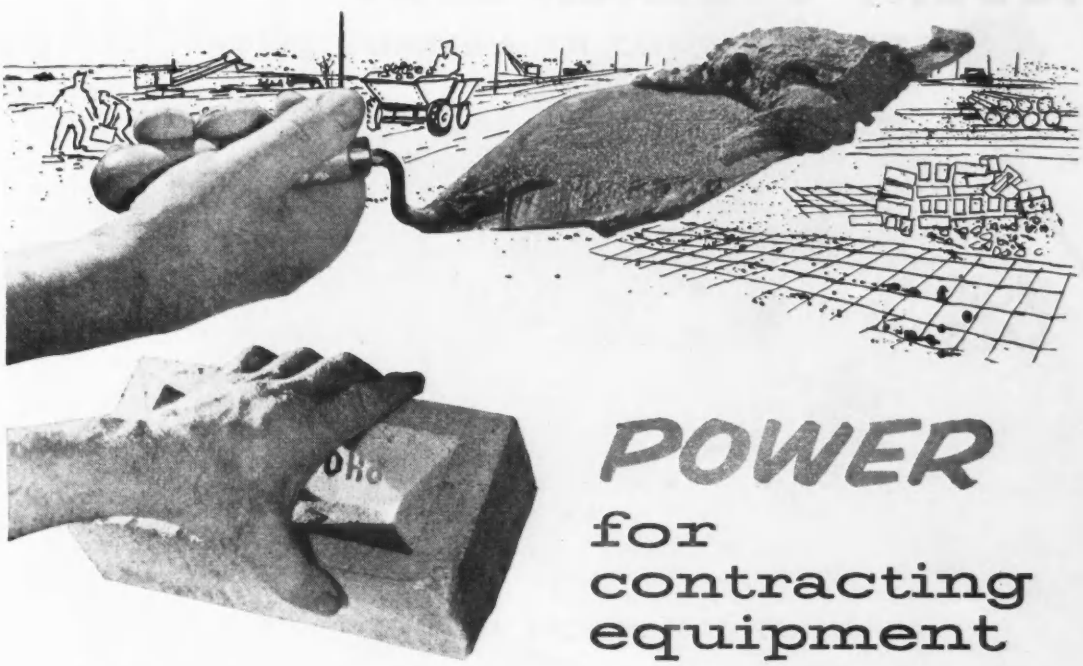

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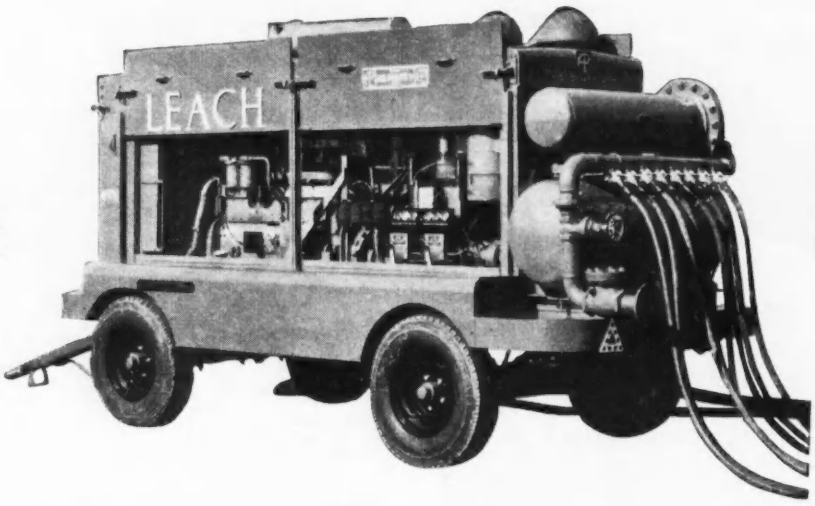

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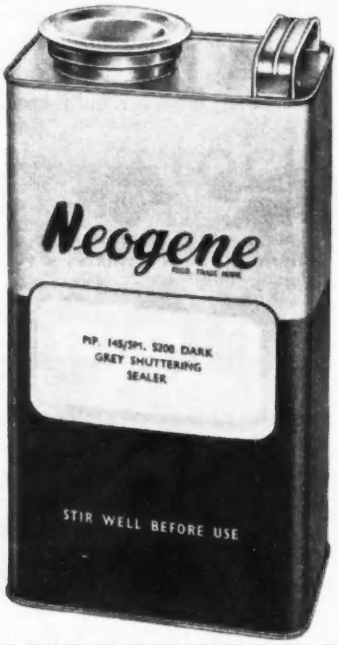

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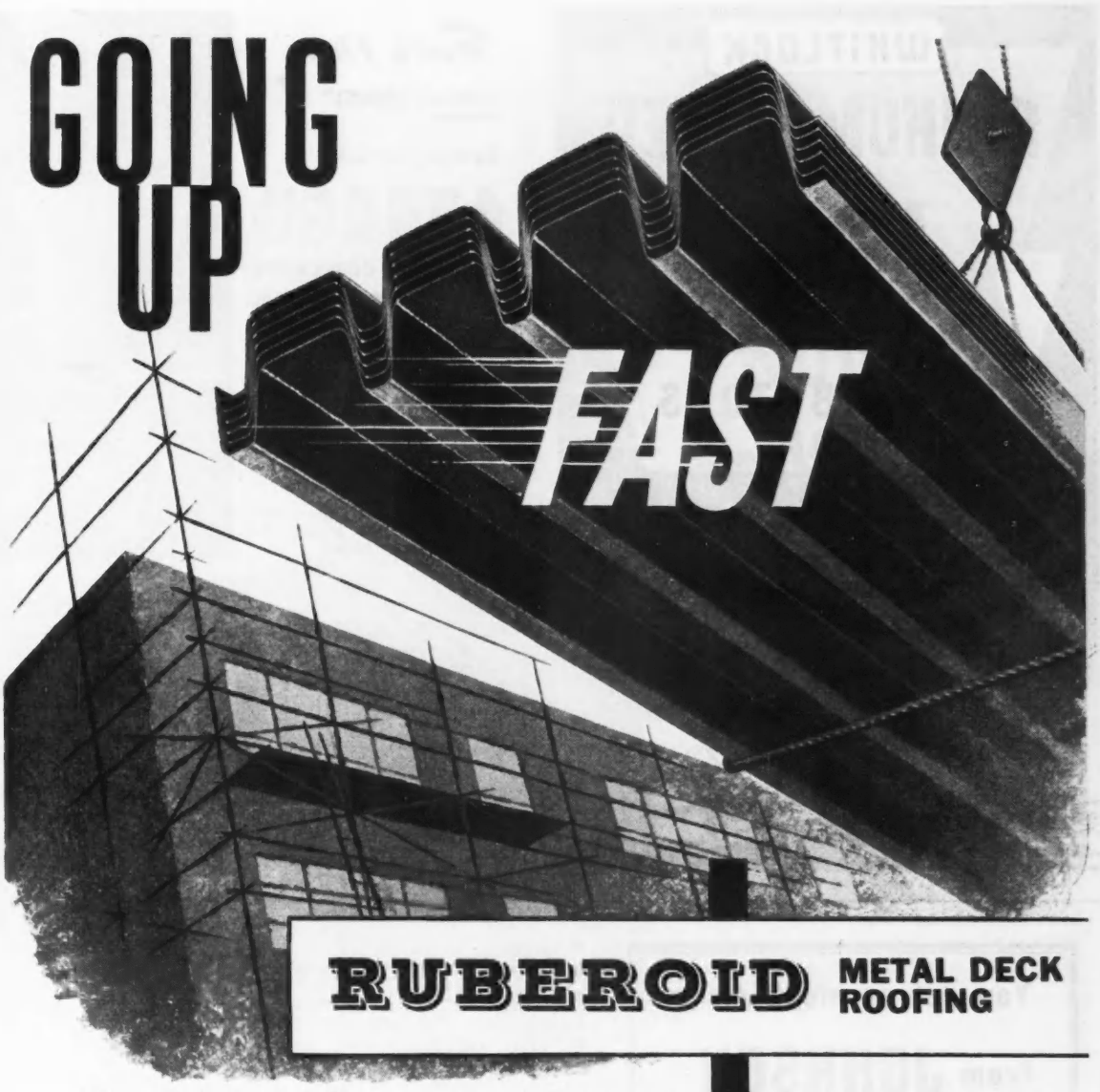

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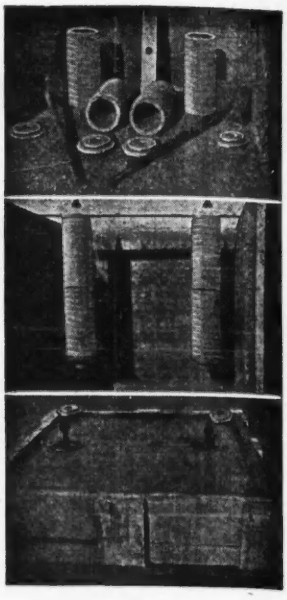

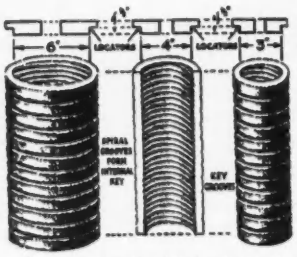

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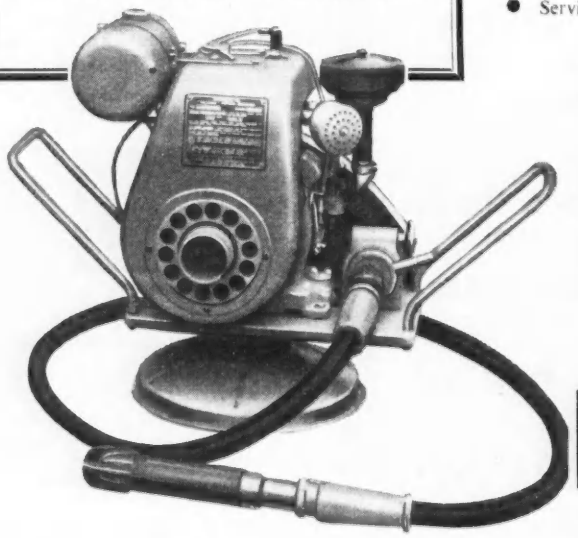

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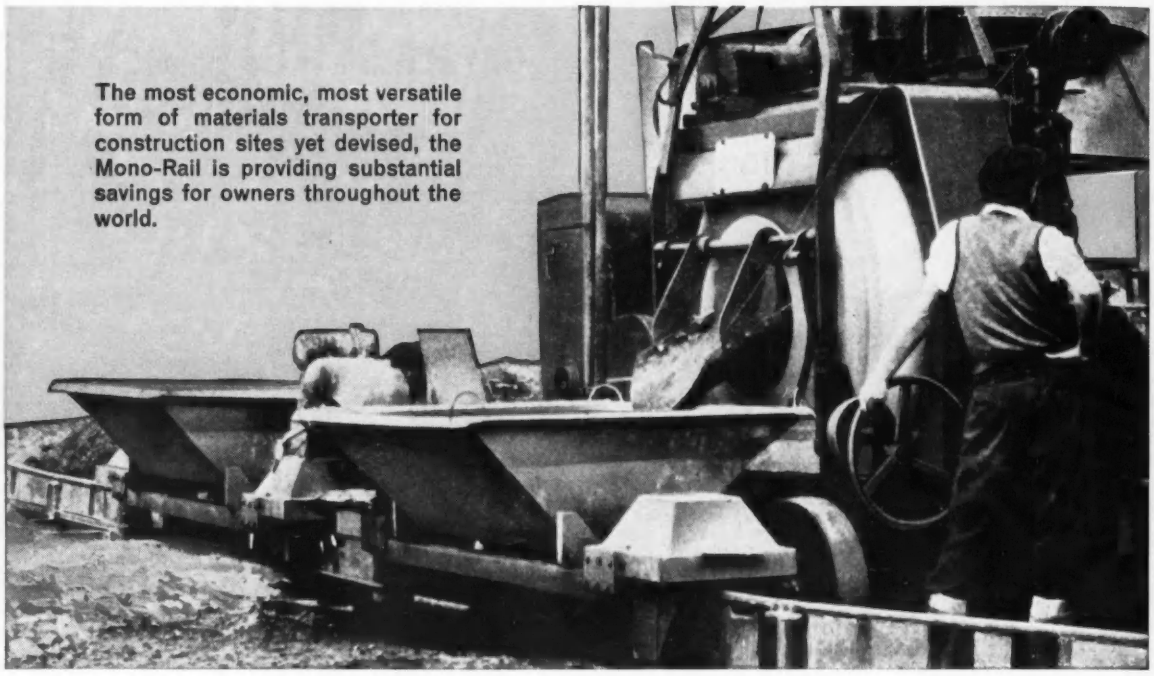

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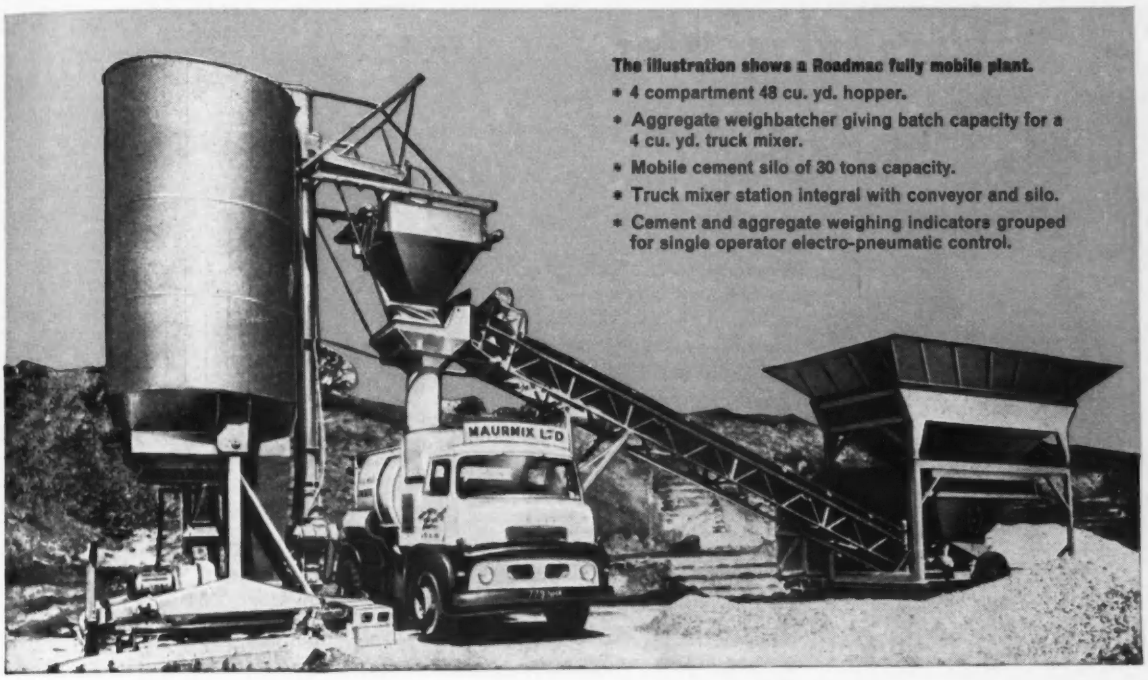

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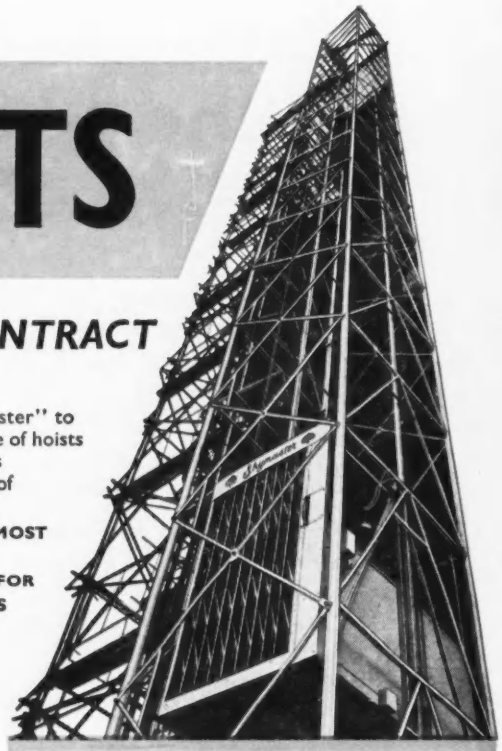
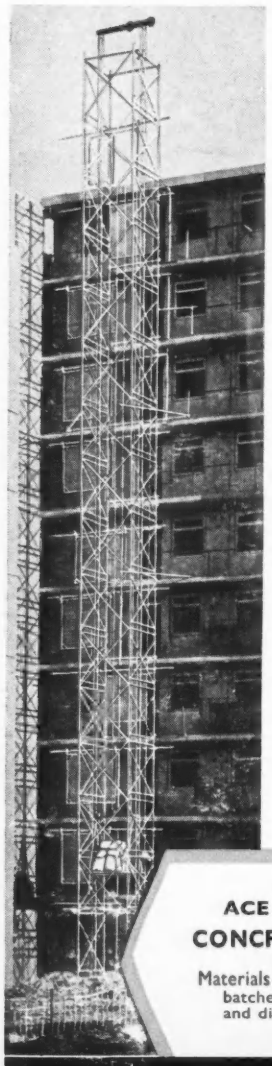


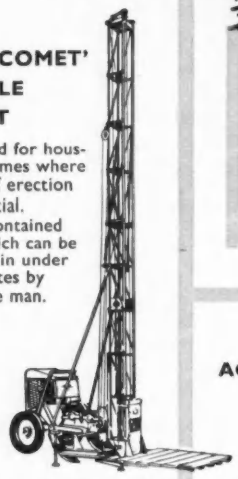


From the "Skymaster" and "Loadmaster" to the "Comet" and "Midget"—a range of hoists which, size for size, price for price, is far superior to any other in the field of Building Construction Equipment.

THERE IS NO DOUBT THAT THE MOST ECONOMICAL AND EFFICIENT PASSENGER AND GOODS HOISTS FOR LARGE AND SMALL CONTRACTORS ALIKE ARE MANUFACTURED BY A.C.E. MACHINERY LIMITED.

ACE 'COMET' MOBILE HOIST

Designed for housing schemes where speed of erection is essential. A self-contained unit which can be erected in under 2½ minutes by only one man.

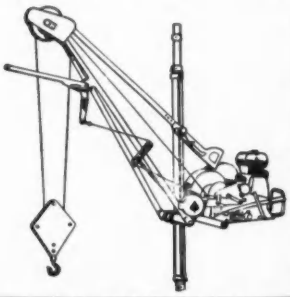


ACE 'SKYMASTER' MARK II MAN-CARRYING HOIST

For multi-storey contracts. Speedy and safe conveyance from floor to floor of supervisory staff and workmen.

ACE 'MIDGET' PORTABLE HOIST

A portable and economical hoist. Easy handling of bricks, mortar, beams, tiles, asphalt etc.



ACE 'LOADMASTER' CONCRETE ELEVATOR

Materials elevated and concrete batches automatically placed and discharged to heights of up to 500 ft.

A.C.E. MACHINERY LIMITED ARE DESIGNERS AND MANUFACTURERS OF MECHANICAL HANDLING EQUIPMENT FOR SPECIALISED APPLICATIONS IN THE BUILDING AND CIVIL ENGINEERING INDUSTRY.

Write for full specifications of ACE Hoists to:

A.C.E. MACHINERY LIMITED

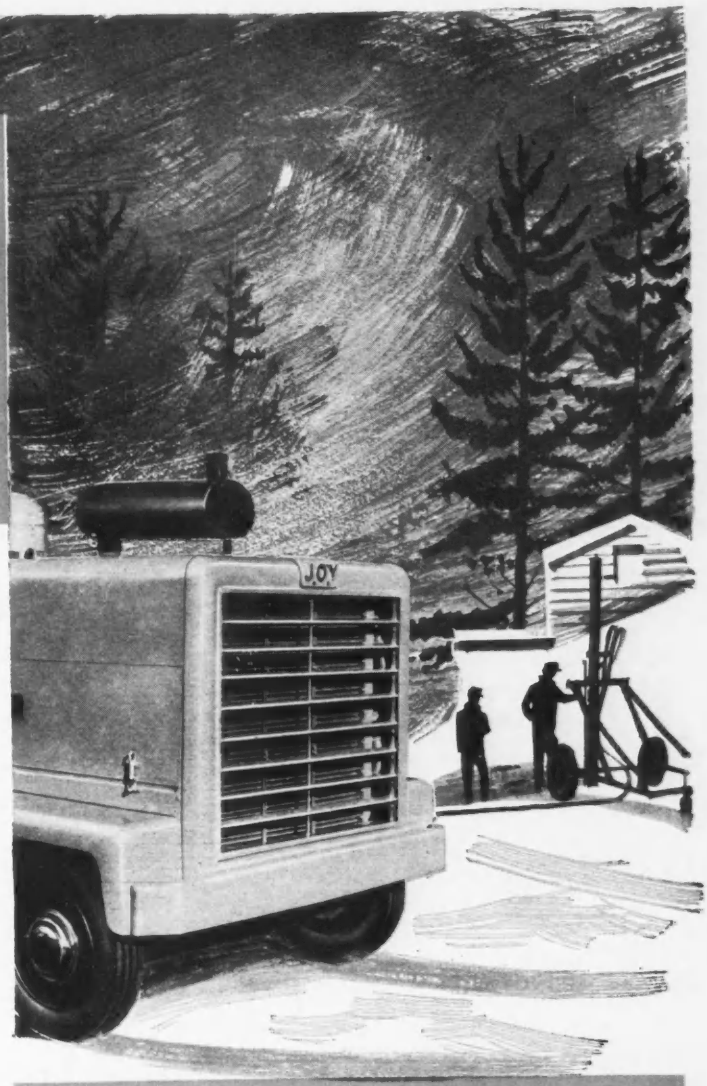
PORDEN ROAD · BRIXTON · LONDON · S.W.2

Telephone: BRIXTON 3293 (9 lines) Telegrams: AUSCON: TELEX: LONDON

and at:— Harlequin Avenue, Brentford, Middlesex.

ACE 94

PERFECT STARTING IN 50 DEGREES OF FROST



Just outside the Arctic Circle in Northern Sweden, two Joy-Sullivan RP.365 rotary portable compressors are supplying air to rock drills on a new highway project. Each morning in a temperature of minus 18°F they start up within 5 seconds.

Here's conclusive evidence of Joy's superior lubrication system, designed to protect the compressor as well as providing an early start to the day.

The Thermal By-Pass Valve is the heart of the Joy oil system. It directs oil to the pump immediately on starting—by-passing the oil cooler until the oil is warmed sufficiently to move through the cooling system without excessive restriction. Another exclusive Joy feature—thermal valves in the oil cooler itself—divides the cooler into two sections, cutting this initial restriction by half during the critical warm-up period, so avoiding machine shut-down due to overheating.

AIRVANES WARM TO THEIR WORK THANKS TO JOY THERMAL VALVES

The unique Joy lubrication system is only one of the reasons why Joy Airvane compressors are increasingly chosen by contractors whose plant *must* stay on the job.

Write now for Publications AD/4 and AD/5 for the full story of Joy Airvane rotary portable compressors.

AIR POWER — SUPPLIED & SERVICED BY

AIR POWER JOY-SULLIVAN LTD DIVISION

JOY-SULLIVAN LTD., AIR POWER DIVISION
7 HARLEY STREET, LONDON, W.1. TEL: LANGHAM 7711

FETCH & CARRY

IF your business is fetching & carrying, tipping & dumping, whether it be rock, sand, soil, grain, coal, coke or the like, then you would be well advised to follow the example of more and more Contractors whose chassis are being fitted with Pilot tipping equipment. The example shown here is an A.E.C. MAMMOTH MAJOR 6 WHEELED CHASSIS fitted with PILOT MODEL U6 GEAR and 9 cubic yard heavy duty steel dumper body. The scow end is detachable and can be replaced by a taildoor.

Bodywork to standard or individual requirements can be supplied in Alloy, Steel or Wood.

PILOT Hydraulic Tipping Gear

PILOT WORKS LTD., Manchester Road, Bolton. Tel. Bolton 5545

LONDON OFFICE: 3 Southampton Place, W.C.1. Tel. CHAncery 5130

...lower cost of steelwork

Construction is simplified;
new steel sections are more efficient;
so are present-day fabrication methods.
Less steel and less labour are required, the weight
of the structure is less,
and so the cost goes down.

LESS STEEL...
due to many new factors which are resulting in worthwhile saving.

...STRONGER
Maintained high quality of British structural steel is now further recognised by the sanctioning of higher working stresses.

BS.449 (1959)
Steelwork designed to this economic and up-to-date specification conforms to a high and accepted standard.

STEEL STRENGTH SECURITY

B·C·S·A

THE STEEL FRAMED BUILDING,
—SO EASILY ADAPTABLE—IS NOW
A BETTER INVESTMENT THAN EVER

BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION, ARTILLERY HOUSE, ARTILLERY ROW, WESTMINSTER, S.W.1

Britain's most powerful Dumper

1100 lb/ft. torque at 1000 r.p.m. thru 1148 at 1300 to 1000 at 2100 means a sustained lugging ability you can't beat—and fuel consumption is surprisingly low, too. Other features for your best-ever off-highway haulage performance include: Hydraulic, controlled tip taking only 9 seconds; Unequalled operator comfort including acoustic-lined cab to reduce noise; One single handlever to perform all gear changes; High-tensile steel body specially resistant to indentation, abrasion and corrosion; Extra strong high-tensile steel frame; Engine, clutch, gearbox, back axle all independently accessible for servicing. Also built in are the experience and know-how of the makers of Britain's widest dumper range.

27 Tons Payload

400 b.h.p.

Rolls-Royce Engine

Aveling-Barford SN **27 TON DUMPER**

AVELING - BARFORD LIMITED · GRANTHAM · ENGLAND

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

(Continued from page 1489)

VALES PLANT REGISTER, LIMITED OFFER FOR IMMEDIATE SALE:
CRANES:
NEALS NM 2-ton MOBILES, 35ft. Jibs, Ruston Engines, 1951/2, pneumatics, £1,100/£1,250 each.
JONES KL44 MOBILE, 24ft. Jib, Ruston Engine, new 1950, £1,650.
COLES 3-ton Diesel MOBILE, on pneumatics, Cantilever Jib, Cab, S.L.I., overhauled, good working order, £675.
JUMBO 3-ton GRAB CRANES, new late 1951, and mid-1955, Perkins P4 Engines, in very good condition, £1,050 and £1,350, respectively.
COLES 6-ton MOBILE, 30ft. Jib, pneumatics, Diesel, £2,750.
BUTTERS 5-ton 2-motor Electric DERRICK, 120ft. Jib, No. 5555, £2,250.
ANDERSON 5-ton Steam DERRICK, 90ft. Jib, new 1947, in good condition, £1,100.
BUTTERS 7-ton Electric, 100ft. Jib, very good condition.
MORGAN 7-ton 3-motor Electric DERRICK, 120ft. Jib, Power Bogies, £6,000.
TAYLOR-HUBBARD 7½-ton Steam LOCO., 50ft. Jib, 1951, 4ft. 8½in. gauge, S.L.I., £2,950.
MORGAN 10-ton 2-motor Electric DERRICK, 120ft. Jib, 1954, Bogies, £4,950.
ANDERSON 10-ton Electric, 120ft. Jib, good condition, £3,200.
MORGAN 15-ton Steam DERRICK, 120ft. Jib, new 1958, on bogies, £8,750.
COLES 20-ton S2310 Diesel MOBILE, on pneumatics, 40ft. Jib, approx. four years old. Offers.
BUILDMASTER BDK TOWER CRANE, 59ft. Luffing Jib, Curve Travel, 1954, P.C.C., £1,050.
FOR A COMPREHENSIVE LIST OF PLANT FOR SALE AND HIRE—SEND FOR VALES FREE PLANT REGISTER.
Further details: 14 Lower Grosvenor Place, London, S.W.1. VICtoria 7531, 3501, 8080, 9886 (15 lines)

FOR SALE. B.S.P. PILING WINCH, two clutch-operated barrels, wire space 12in. dia., 1ft. 6in. long, cylinders 6in. bore x 8in. stroke, warping drum on each shaft 9in. long, 6in. dia. This winch has had little use. Photograph on request. Price £135. NORMAN WALKER (MACHINERY), LTD., Anlaby, Hull.

FOR HIRE. Lorry-mounted MOBILE CRANES—3-ton, 5-ton and 10-ton Coles, 2-ton Hydracranes and Jones. Jib lengths up to 60ft. COVENTRY MOTOR SPARES, Gulson Road, Coventry. Telephone 27599.

WANTED. CEMENT MIXERS, 3/2 to 5/3½ preferred; running order, or needing repairs; petrol models: London area. — Write Box P.1521, "The Contract Journal."

WANTED. Gar Wood Double Drum WINCHES to fit HD14 and HD10s. — DICK HAMPTON Broadview Farm, Blacknest, Alton, Hants. Tel.: Bentley 2241.

SLOGGETTS PLANT HIRE. — Fleet of DIGGER-LOADERS for immediate HIRE.—2 Burtons Road, Hampton Hill, Middx. Tel.: Teddington Lock 1138/9.

FOR SALE.
Caterpillar D4 and Birtley Dozer, reconditioned, £1,500.
Caterpillar D2, fitted L.P.C. Dozer, £650.
Allis-Chalmers HD7W, fitted Baker Hydraulic Angle-dozer and Double Drum Winch, reconditioned, £950.
International TD18, fitted Dozer and Winch, £650.
International TD9, fitted Dozer, £450.
International TD9, fitted Carco Winch, £350.
Le Tourneau 4yd. SCRAPER, £265.
Broomwade COMPRESSOR, 3-tool, Petrol, £165.
Johnson COMPRESSOR, 2-tool, Petrol, £75.
Dinkum DIGGER and Two Buckets, as new, £350.
Allis-Chalmers HD7, Tracks new.
A.E.C. TRACTOR UNIT, fitted Gardner 5LW, Hands, 15-ton, and Well Trailer, £450.
OIL: High-grade Engine and Gear Oil in 4½-gallon Jerry cans, 25s. each.
ROBIN BOSWORTH,
Tel.: Stoke Saint Milbro 237. Nr. Ludlow, Shropshire.

ROAD ROLLERS.
Aveling-Barford GD2, 8/10-ton, 1949, with Ruston 3VSHR Diesel Engine, Hydraulic Scarifier, Driver's Cab, Sprayers, etc.
Ditto, GB1, 3-ton, 1948, with Ruston 2VTHR Diesel Engine, Canopy, Sprayers.
Ditto GA, 30/35cwt., 1948, with Ford 8 Petrol Engine.
Marshall RD2, 8-ton, 1949, with Perkins P4 Diesel Engine, Allen 2-tine Scarifier, Driver's Cab, Sprayers, etc.
A. M. COLE, Eastgate, Sleaford, Lincs. Tel. 463.

FOR SALE. 20-ton Avery WEIGHBRIDGE. Avery No. 51018CB, self-indicating, cast-iron construction, chart graduated 0-4 by 14lb. divisions with four unit weights, each of 4 tons, giving a total capacity of 20 tons, platform 20ft. x 8ft., distance from centre of platform to indicator connecting rod 10ft. 6in.—For further particulars, apply DOWSETT ENGINEERING CONSTRUCTION, LTD., Dowsett House, Durham Road, Gateshead-on-Tyne, 9.

FOR SALE. Allen Atos TRENCHER, eight months old and in excellent condition, complete with 1958 Ferguson Tractor, with Shawnee Hydraulic operated Front Shovel also in excellent condition. Offers required for this equipment, which can be inspected any time in Leicester.—GROCOCK AND DAY (PLANT HIRE), LTD., Mayfield Road, Leicester. Tel.: Leicester 58148.

FOR SALE. Two Muir-Hill 3yd. DUMPERS, Diesel engines, April, 1951, and July, 1952, machines, good tyres and general condition, £250 each. KINGSTON (MACHINERY SALES), LTD., Twickenham Road, Hanworth, Middx. 'Phone FELtham 4084/5.

DINKUM DIGGER, on Ferguson Diesel Tractor, 18in. and 24in. Excavating Buckets, sound machine, £550.—PLANT REPAIRS (BRISTOL), Fox Road, Bristol 2. Telephone 56009.

FLEET CARS (SALES), LTD.—BUSES and COACHES for the conveyance of workmen, personnel, etc. Free hire, repurchase scheme.—See main advertisement under "Electrical Equipment."

FOR SALE.
Dinkum DIGGER on Fordson Major Diesel Tractor, with Skyhi Shovel, 1957. Ready for work, £650.
1947 10RB, Skimmer/Backacter and Dragline, £750.
Another, Skimmer/Backacter, wide track, £750.
Caterpillar D4, with La Plant Hydraulic Dozer and L.T. Winch, new engine fitted recently, £650.
Allis-Chalmers CRAWLER, with 1yd. Shovel, good tracks, 1952. Ready for work, £900.
Caterpillar No. 6 TRAXCAVATOR, 2¼yd. Shovel, late 1956, beautiful condition, 3,800 hours only, tracks almost new, new bottom rollers. Price on request.
Bates 1¼-ton Diesel DUMP TRUCK, Petter AVA2, £175.
Thwaites 1½-ton Tusker DUMPER, Petter AVA2, £175.
GF ½-ton DUMPER, Diesel, £85.
Other DUMPERS, Petrol type, from £30.
Hire Purchase. Exchanges.
N. E. FIELDS,
Forest Edge, Ringwood Road, Ferndown (837), Dorset.

BALFOUR, BEATTY AND COMPANY, LTD. OFFER FOR SALE at Lounsdale Road, Paisley (Tel. 8054):
Two 19RBs, Serial Nos. 7096 and 7233.
Four DERRICKS, 3/10-ton.
One 7-ton Monotower CRANE.
Three AIR COMPRESSORS, 60-210 cu. ft.
One PC3 CONCRETE PUMP and Remixer, electric.
Two 1083 HAMMERS.
One No. 7 PILING HAMMER.
One Scwt. Avery WEIGHING MACHINE.
One WELDING SET, 300 Amps, petrol.
Five PUMPS, 1½-4in.
One TRANSFORMER, 250-kVA.
One 17½-kVA TRANSFORMER, 440/400-V Booster.
One 5-ton Bedford TIPPER LORRY, petrol, 1954.
One 10/12cwt. Bedford VAN, 1953.
One Bristol BUS, Single-decker, Diesel, 1935.
Offers to 10 Melville Street, Edinburgh, 3.

SPECIAL OFFER.
New 1959, J.C.B. HYDRA-DIGGA/LOADALL, with power steering. For quick sale, first offer list price less £500. Special delivery terms.
DIAL-MEC.
47 Castle Street, Hertford. Tel.: Hertford 2456.

THE South Coast's most efficient plant hire company. K. MIKOLAY AND SON, LTD., Station Approach, Newhaven. Telephone: Newhaven 344. All Earth-moving Equipment, HD5G Excavator, Bulldozer, J.C.B. Keen hire rate. Prompt service.

STEEL SHEET PILES and TRENCH SHEETS urgently WANTED. All sections bought, large and small quantities. Immediate payment.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. VICtoria 0252.

FOR SALE. 3-ton Electric DERRICK, 100ft. Jib, Butters manufacture.—Write Box P.1349, "The Contract Journal."

FOR SALE. 8/10-ton and 2½-ton Aveling GBL Diesel ROLLER.—B.G. PLANT (SALES AGENCY), LTD., Watlington 44, Oxon.

RAILWAY MATERIAL
RAILS OF ALL SECTIONS AND ALL ACCESSORIES—CONTRACTORS' PLANT, TOOLS, ETC.
INSTALLATION OF SIDINGS UNDERTAKEN
ARMYTAGE & SONS, LTD.
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3/2 MIXERS 'Half-Bag'
FOR HIRE
30/- PER WEEK
PETROL OR ELECTRIC—1 PHASE
JOHN MACNAMARA & CO. LTD.,
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DUMPERS
Three late 1958 THWAITES TUSKER 4-wheeled Diesel DUMPERS, capacities 22 cu. ft. wet concrete. Completely reconditioned and guaranteed for three months, resprayed, £325 ex works.
Two THWAITES JUMBO 4-wheeled Diesel DUMPERS, capacities 14 cu. ft. wet concrete. Completely reconditioned, resprayed, and guaranteed for three months, £240 and £275 ex works.
Five THWAITES 3-wheeled HYDRAULIC TIPPING DUMPERS, capacities 12 cu. ft. ALL IN GOOD CONDITION, overhauled, but NOT reconditioned, from £75.
NEALE-WRIGHT
& COMPANY LTD.,
150 PARADE, LEAMINGTON SPA.
Telephone: Leamington Spa 924 and 220. London Gladstone 8874.

DIESEL PETROL AND STEAM ROLLERS
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BOMFORD & EVERSHED LTD.
SALFORD PRIORS · EVESHAM · WORCS
Telephone: BIDFORD-ON-AVON 3202

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1958
300 amp. LINCOLN PORTABLE DIESEL SETS
FOR HIRE
Very Keen Rates — For Long Term Hires
MOORE'S PLANT LIMITED
105-129 MARKFIELD ROAD, N.15
Phone: TOTtenham 0401/8

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EASTERN DRYDOCKS · NEWPORT · MON.
Telephone: NEWPORT 724612 (Plant Depot)
PLANT HIRE AND GENERAL MACHINERY MERCHANTS
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VIBRATING ROLLERS
CONCRETE MIXERS · HOISTS
GENERAL CONTRACTORS PLANT
All enquiries to Plant Depot at Newport
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PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

H. COX AND SONS (PLANT HIRE), LTD. OFFER FOR IMMEDIATE SALE:
10RB EXCAVATOR, Series No. 10254, Skimmer, Backacter and/or Dragline Equipments.
10RB EXCAVATOR, Series No. 10255, Skimmer, Backacter and/or Dragline Equipments.
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10RB EXCAVATOR, Series No. 13772, Skimmer and Backacter Equipments.
10RB FORWARD SHOVEL EQUIPMENT.
19RB FORWARD SHOVEL EQUIPMENT.
19RB SKIMMER and BACKACTER EQUIPMENT.
D6 TRACTOR, Series No. SR1492, fitted Angledozer Equipment and 6 cu. yd. Scraper.
Three Broomwade SVD2 3-tool Mobile COMPRESSORS.
One Broomwade SVD1 2-tool Mobile COMPRESSOR.
Several RB55 BREAKERS, CNP40 and CNP50 Picks.
Austin 1955 CHASSIS (petrol) with 4-ton Low-loading Trailer and Winch.
Further details:
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CONTRACTORS' PLANT FOR HIRE.
New Motorised PAYSCRAPERS for Immediate HIRE (22 cu. yd).
BTD6, TD14 and TD18 TRACTORS, fitted with Drott Skid Shovels.
BTD6, BTD20, TD9, TD14, TD18 and TD24 TRACTORS, with Bulligraders and/or Scrapers.
TD18 TRACTORS with Pipe-laying Equipment.
10RB, 19RB and 22RB EXCAVATORS, with all Equipments.
First-class machines and operators, backed by finest field service in Great Britain.
Generous transport terms to all parts of England.
LUMLEY (PLANT), LTD.
Stratford-on-Avon 4242, Ashford (Middx.) 4191, Cardiff 33572.

CRANE HIRE SPECIALISTS.
Lower Bristol Road, Bath.
Consult G. W. SPARROW AND SONS, LTD., with all your lifting problems.
Lifts up to 50 tons; Jib Extensions to 170ft.
COUNTRY WIDE SERVICE.
'Phone: Bath 78158-78450.

A. E. FARR (PLANT HIRE), LTD., offer for SALE or HIRE wide range of all types of CONTRACTORS' PLANT, including motorway and bridge construction equipment. Special terms for long hires. All plant available with option to purchase on attractive terms.—Tel. Westbury (Wilts.) 356.

FOR SALE. Two Marshall 8/10-ton Diesel ROLLERS; one Diesel 6/8-ton Tandem ROLLER; one Allis HD5 SHOVEL; one Drott SHOVEL; two Diesel Fork Lift TRUCKS.—Write Box P.1520, "The Contract Journal."

FOR SALE. Barber-Greene Continuous Mix ASPHALT AND MACADAM PLANT. — B.G. PLANT (SALES AGENCY), LTD., Watlington 44, Oxon.

FOR SALE Ex Stock at Keenest Prices.
Barber-Greene Model 879A (1952), fitted Perkins P6 Diesel, recently overhauled, in very good condition, price £1,650 or near offer.
10RB, No. 9299, fitted Shovel Equipment, £800 or close offer. Ex Stratford.
17RB, tracks recently repinned and rebushed, very good machine, any equipment. Ex Stratford.
Priestman Wolf 3A, with Shovel, Backacter, Norton narrow Bucket, £1,250 the lot.
Priestman Panther, chain-driven, with any equipment, very good order. Ex Stratford.
Ransomes and Rapier 423 (⅝), new 1952, fitted Shovel, £150 spares, little used, price £1,400. Full list of above Excavator sent by return.
Muir-Hill SHOVEL (1953), fitted Fordson Diesel Engine, excellent order, cheap, £375.
Chaseside SHOVEL, T.V.O., little used machine, in first-class order, £140.
Fordson-Barford ¾yd. SHOVEL, with special low-reduction gear, equipment hardly used since fitted to Fordson, £135.
D2 5U (1949) TRAXCAVATOR, with spares valued about £300, ¾yd. Bucket, Blade and Cab, little used since completely rebuilt, £700 the lot.
LS9 SCRAPER, new 1949, good tyres, £500.
Le Tourneau Model M6, £200.
Jones Super 22 MOBILE CRANE, £650; also Super 40.
5-ton Single-motor Scotch DERRICK, with Auto Indicators, 80ft. jib, very good structure. Keen price to clear.
All above seen our works.
We also have lists of all types of Excavators, Contractors' and Quarry Plant. Sent on request.
SAVILLE-CALVERT (MACHINERY), LTD.,
Harvester House, Stratford-upon-Avon, Warwickshire.
Tel. 4242.

EX STOCK NOW.
1955 Jumbo Hydraulic 3-ton CRANE, with 1¾yd. Hydraulic Grab, Ram Gaiters, Swan-neck Jib, excellent order, £1,250.
1951 Jumbo Hydraulic 3-ton CRANE, with 1¾yd. Hydraulic Grab, very good, £950.
WILLIAM R. SELWOOD, LTD.,
Chandler's Ford, Hants. 'Phone 2275.

DUMPERS FOR SALE.
1½yd. Thwaites.
1½yd. Benford.
15cwt. Benford.
W. V. DAVIES, Shipston-on-Stour. 'Phone 125.

TRAXCAVATORS for HIRE. Caterpillar 977, 955, HT4, International BTD6, 4-in-1. All in first-class condition, with experienced operators. — MOBILE HAULAGE, LTD., 230 Tottenham Court Road, London, W.1. Tel.: Langham 7833/5.

FOR SALE. 410 (⅜ cu. yd.) Diesel-driven Rapier EXCAVATOR, with Four-purpose Equipment, new 1949, sound condition.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

FOR SALE.
D4 TRACTOR, Model 2T, with L.P.C. Dozer, £850.
HT4 TRAXCAVATOR, with 1¼ cu. yd. Bucket, £1,975.
D7 TRACTOR, Model 3T, with L.P.C. Dozer, £3,250.
D8 TRACTOR, Model 2U, with Caterpillar 25 Winch £2,350.
D8 TRACTOR, Model 2U, with Birtley Dozer, £2,675.
Six Onions WINCHES for Sherman Tanks, £225.
19RB EXCAVATOR, 4000 Series, Dragline or Backacter Equipment (working order), £950.
20-ton PORTASILO, complete, June, 1957, £475.
30-ton PORTASILO, complete, June, 1957, £575.
21/14 Rapier CONCRETE MIXER, Model 14T, Turner Diesel Engine, £250.
10/7 Rapier CONCRETE MIXER, Model 7T, £75.
10/7 Winget CONCRETE MIXER, with Lister Diesel £75.
Le Tourneau 4 cu. yd. SCRAPER, Model X, £150.
Le Tourneau 14/15 cu. yd. SCRAPER, Model F, £890.
SPARES—Ransomes and Rapier, Ruston, Caterpillar. 50 per cent. off list.
A. J. PHILLIPS, LTD.,
Metropolitan Works, West End Lane, London, N.W.6.
Telephone: Maida Vale 3406/2055/4807.

FOR SALE.
TURNTABLE, suitable for Pingon P20 and P25 Tower Cranes, rail centres 12ft. 6in. (unused).
Pingon P18E TOWER CRANE, c/w ballast, rails and sleepers, purchased 1953, machine No. P18E/15, No. 791. This Crane is in perfect order and ready for work, c/w extra safety devices.
The above Plant can be seen at SCOTTISH SPECIAL HOUSING ASSOCIATION, LTD., Greenfield Plant Depot, Burnbank, Hamilton, Lanarkshire. Offers, in sealed envelopes, to the Secretary, 19 Palmerston Place, Edinburgh, by 7th April, 1960.

FOR SALE.
330 c.f.m. Broomwade Type EH241 Electrically driven AIR COMPRESSOR, 100 p.s.i., with 75-h.p. 400/3/50 motor and air receiver.
100 c.f.m. Broomwade, Type EP660 Ditto, with 25-h.p. 400/440/3/50 motor and air receiver.
100 c.f.m. C.P.T. Two-stage Air-cooled COMPRESSOR, 100 p.s.i. with 25-h.p. 400/440-V 3/50 motor and air receiver.
JOSEPH PUGSLEY AND SONS, LTD.,
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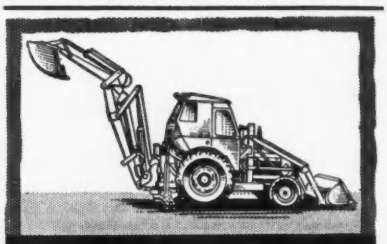

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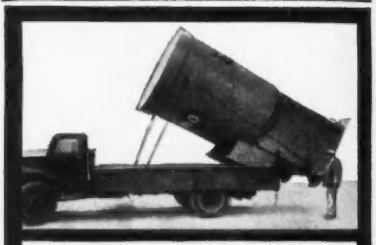

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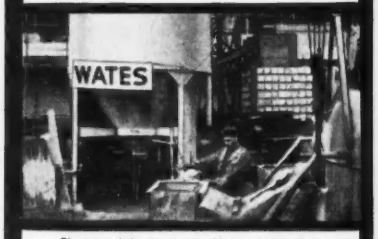

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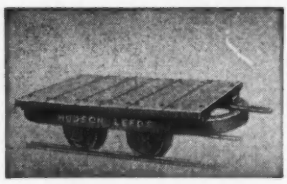

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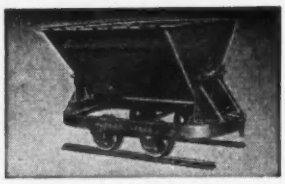

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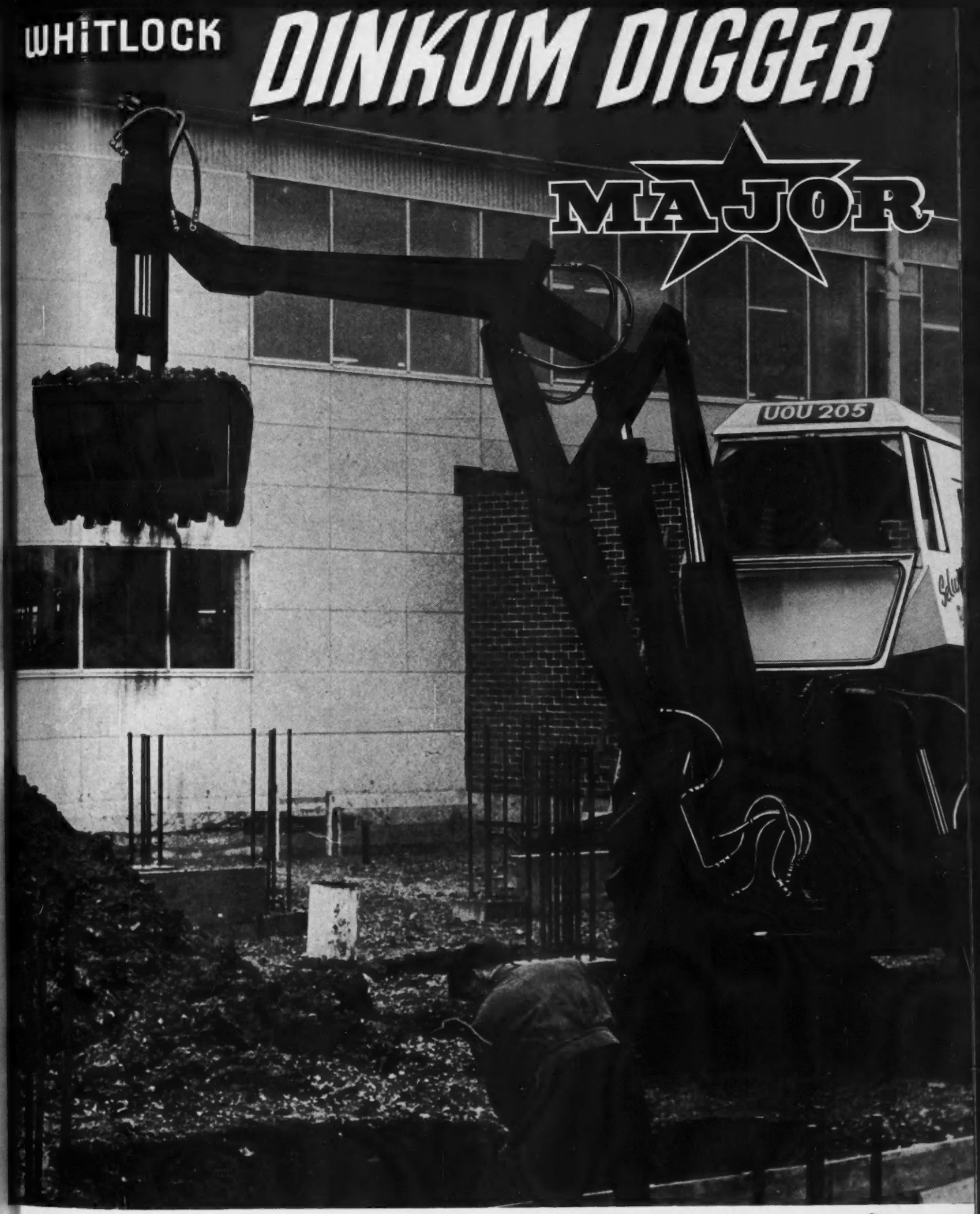

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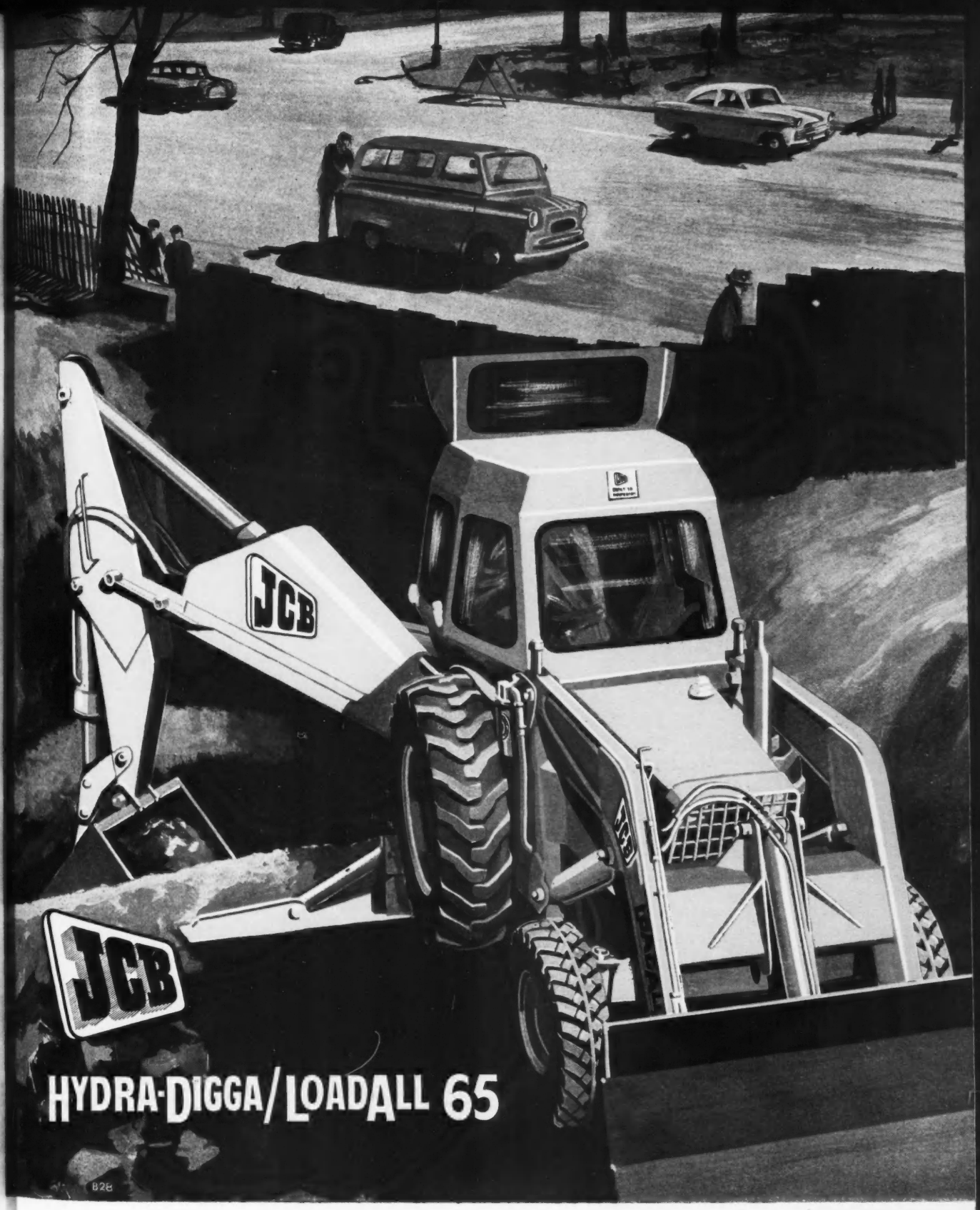

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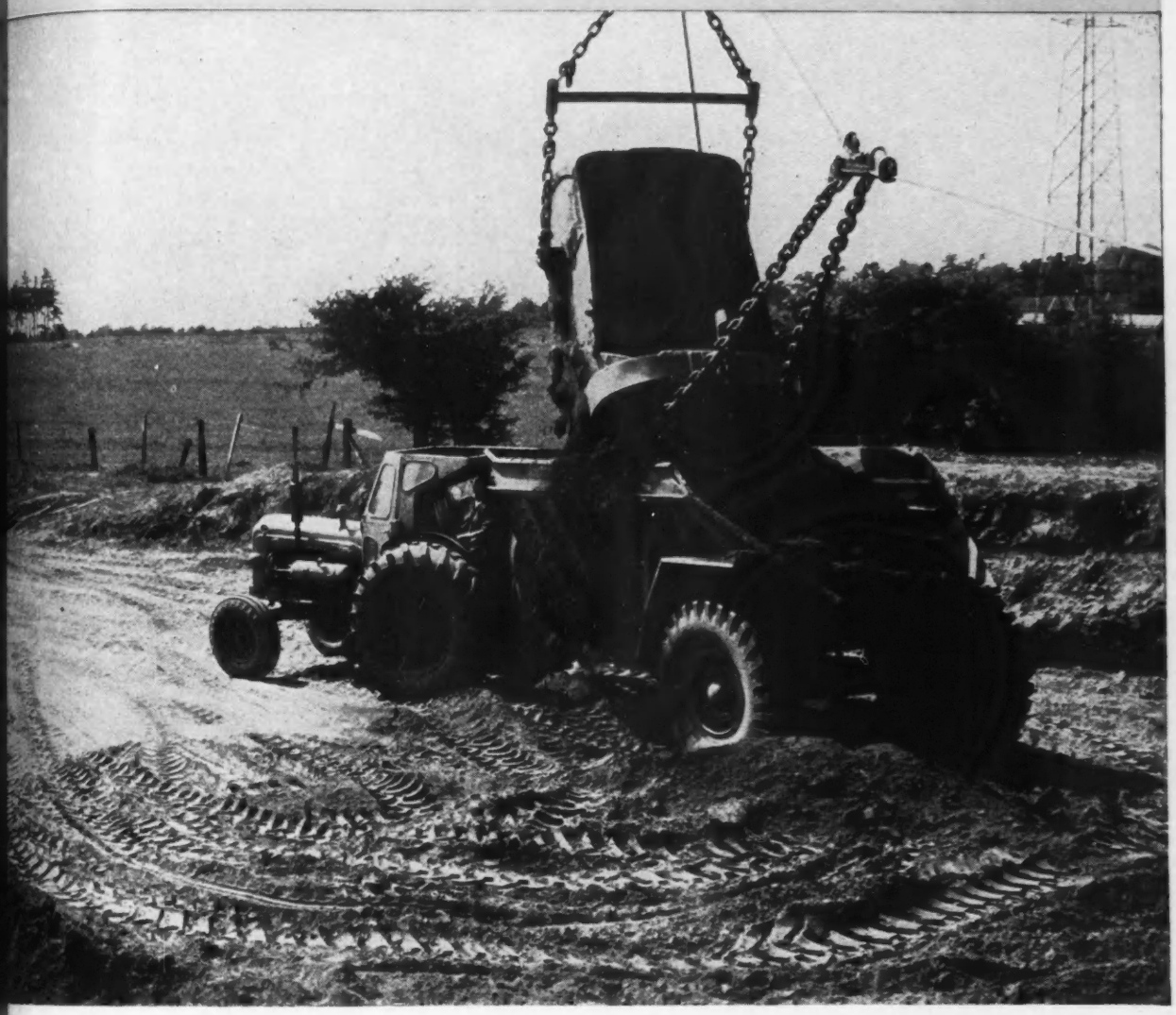

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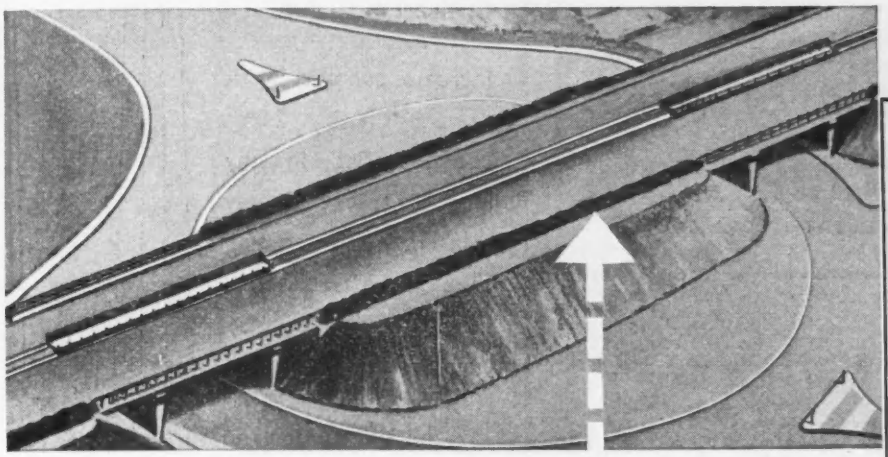

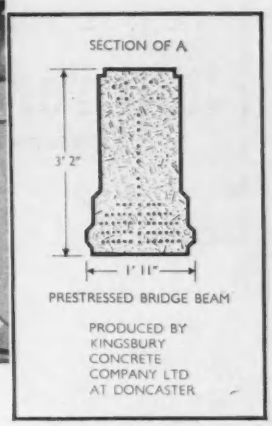

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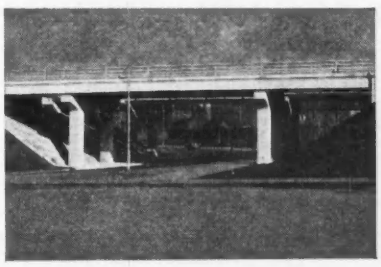
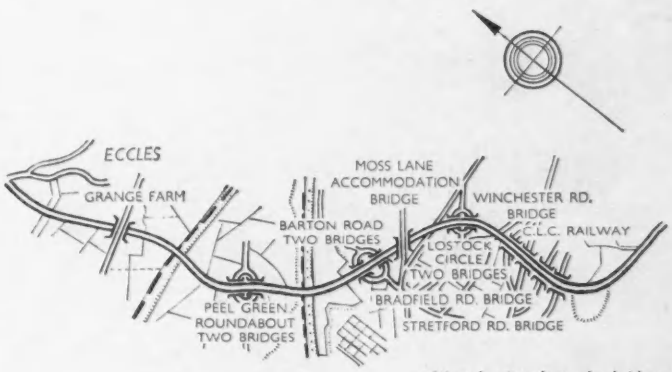


One of the completed bridges at Peel Green



Map showing the twelve bridges

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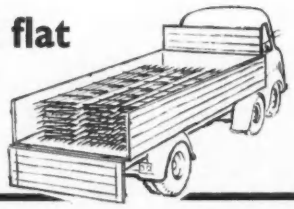

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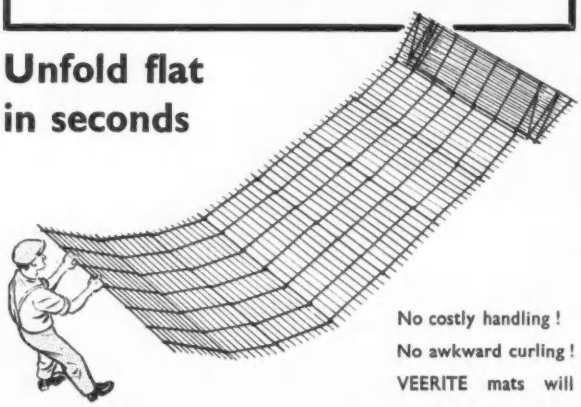

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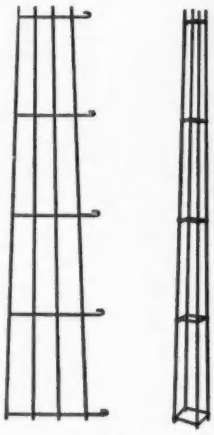

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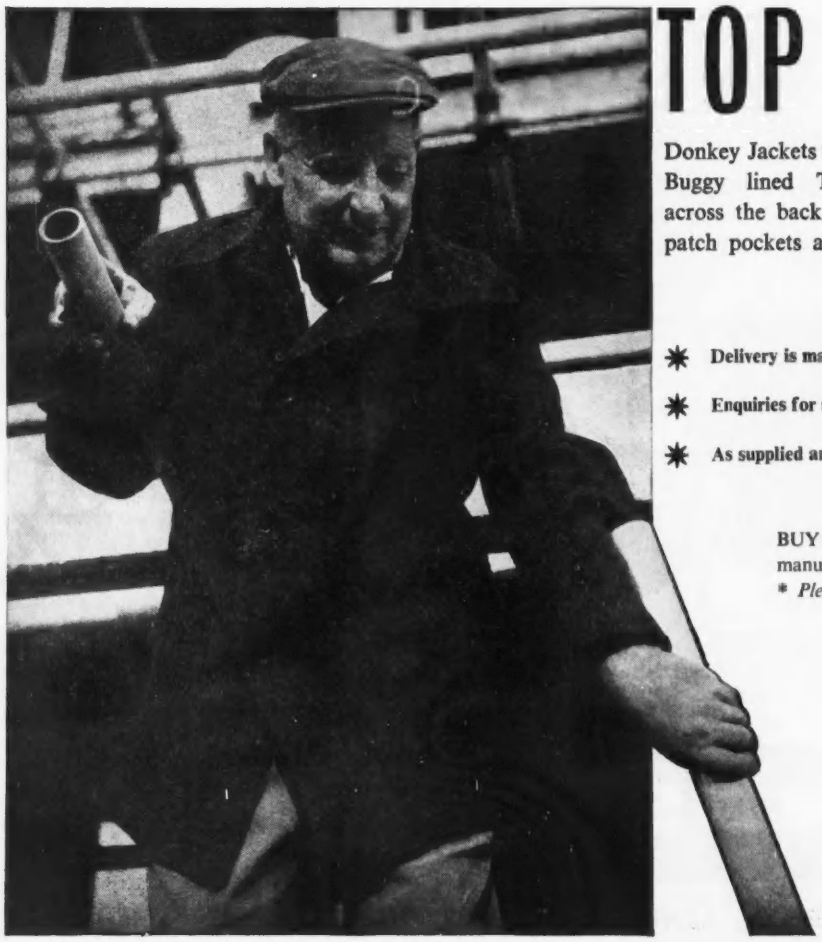

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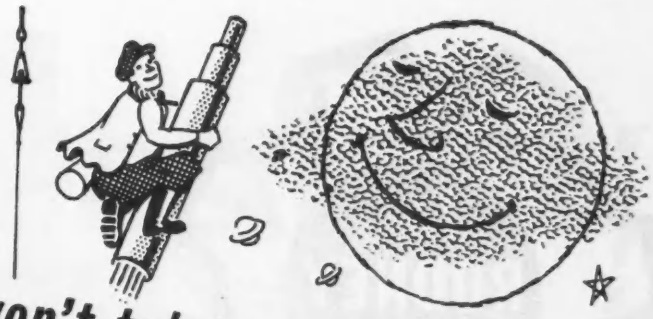

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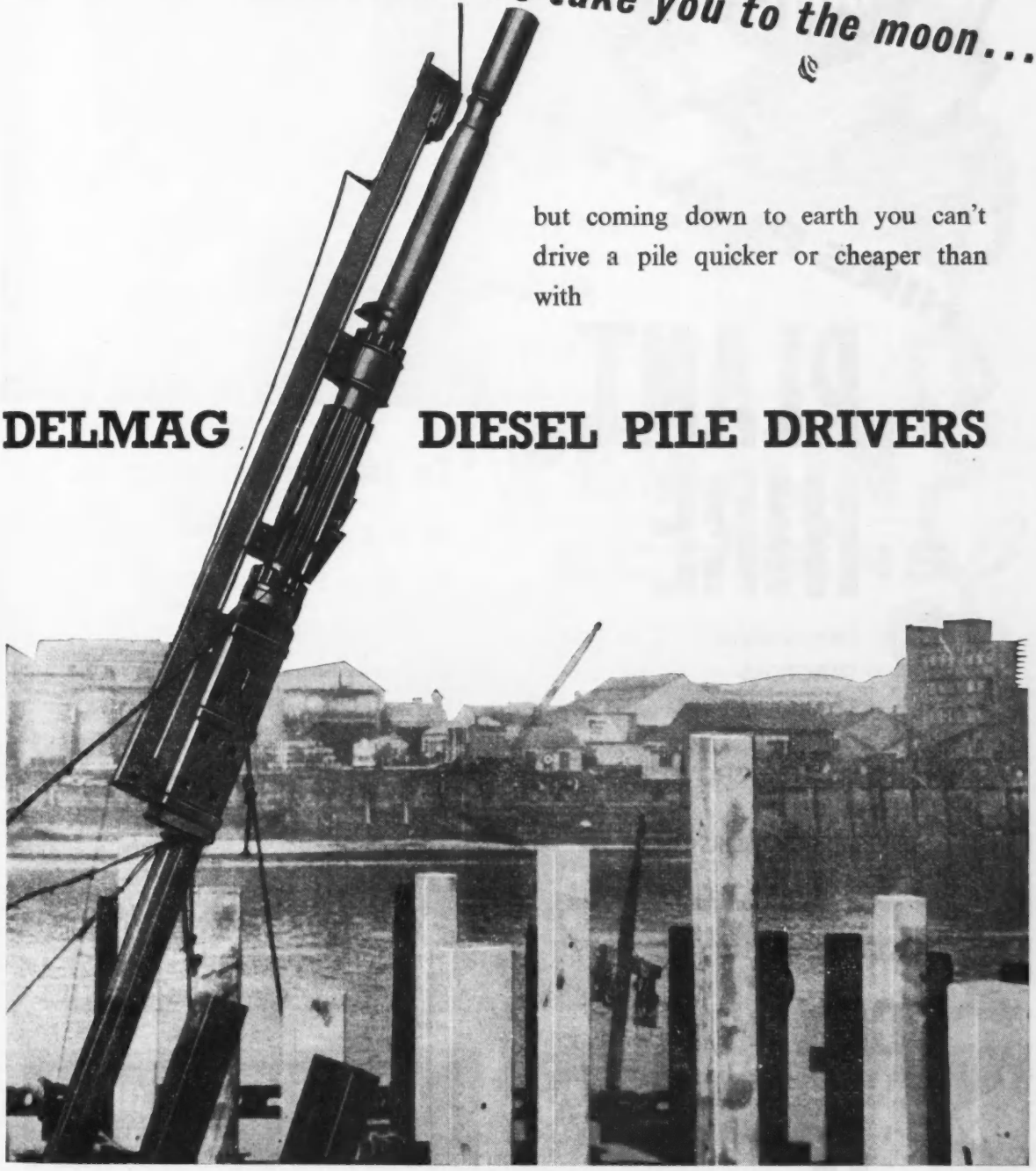

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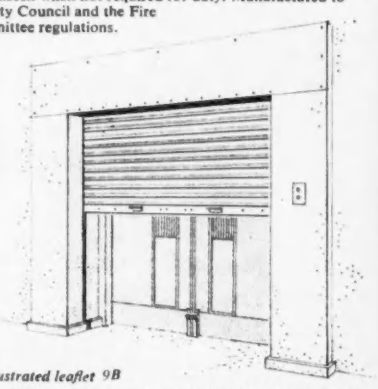

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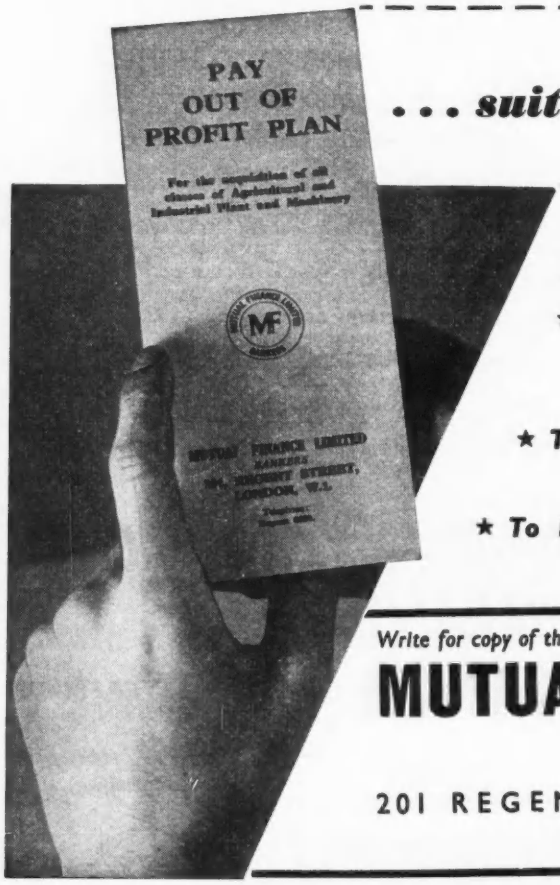

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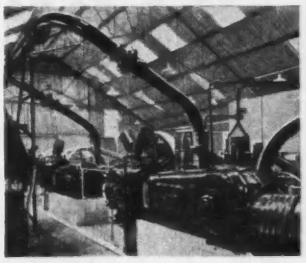
Difficult conditions for drilling, but all in a day's work to the Consolidated Pneumatic G-800 Tracdril, shown drilling 4" holes to 40-ft to channel a way for a floating caisson.

Jobs for compressed air abound on all sites. Here, a CP 319 Angle Grinder is being used to cut scaffold poles.



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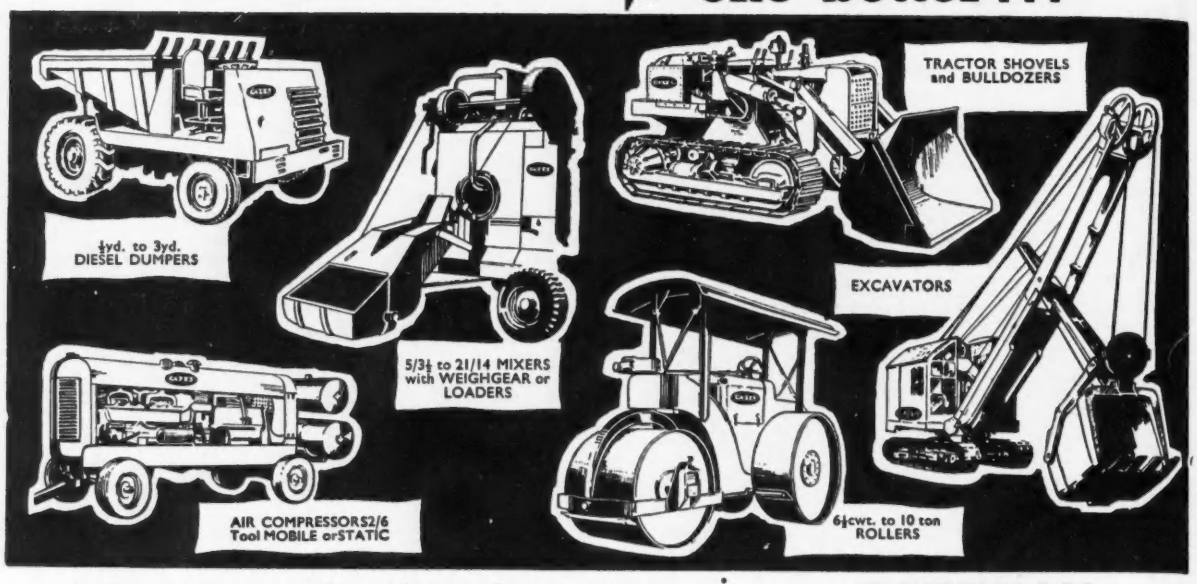

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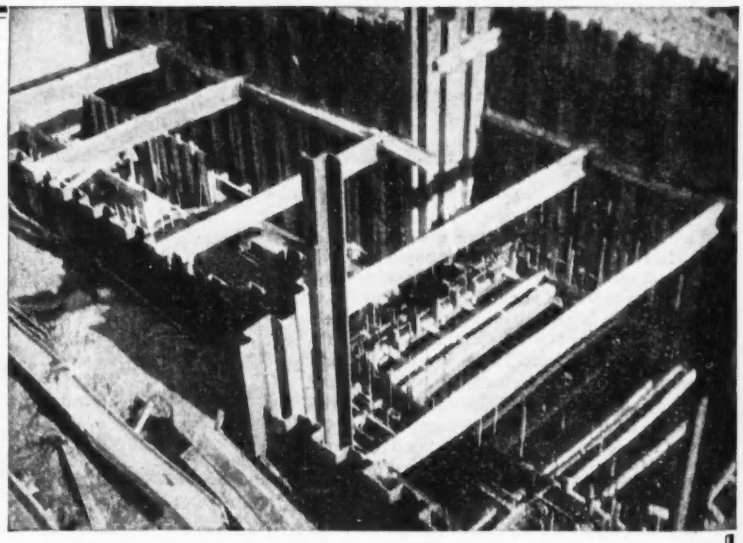

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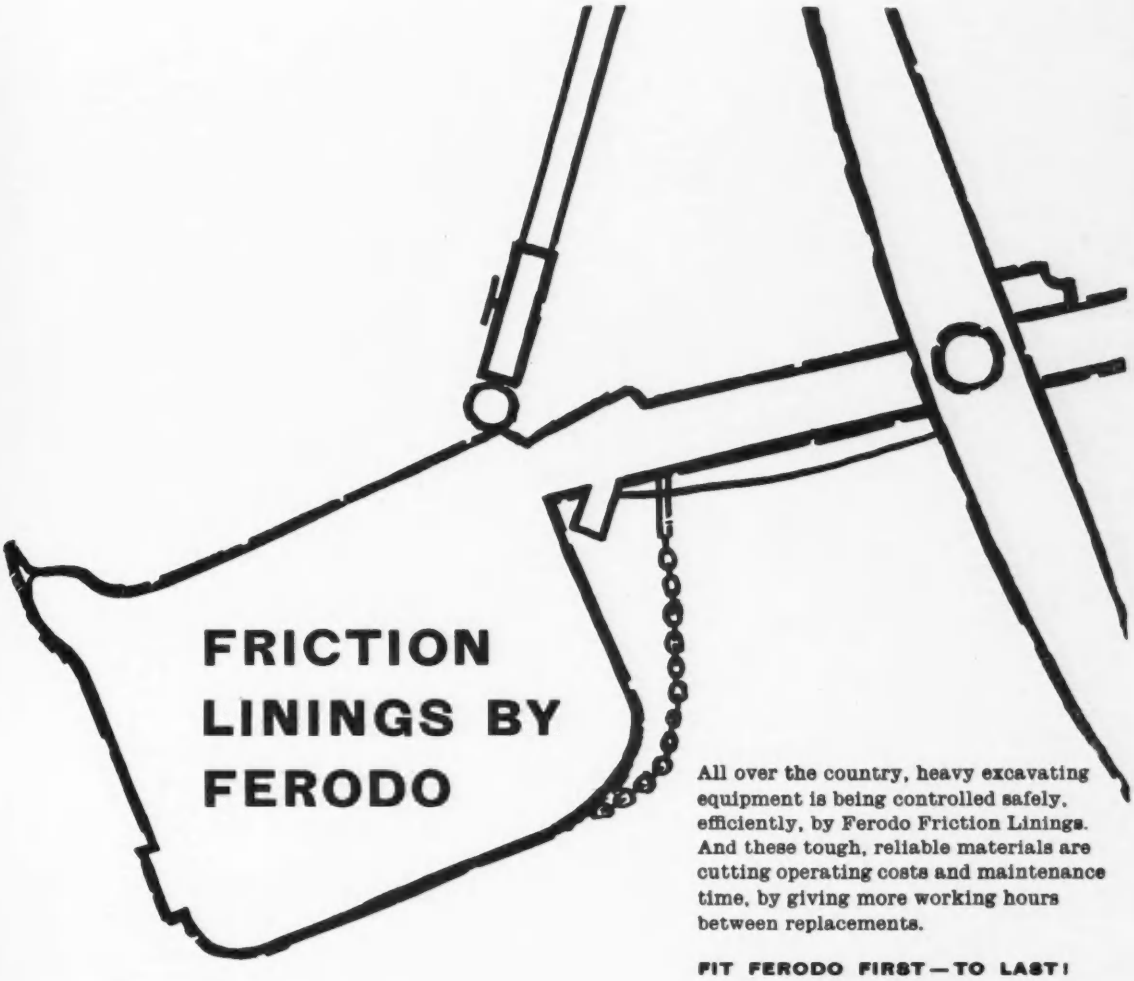

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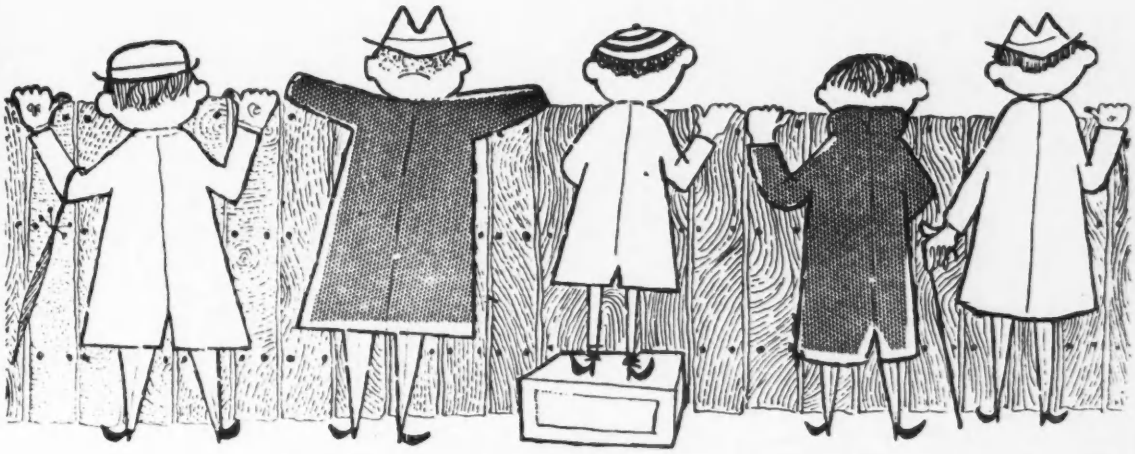

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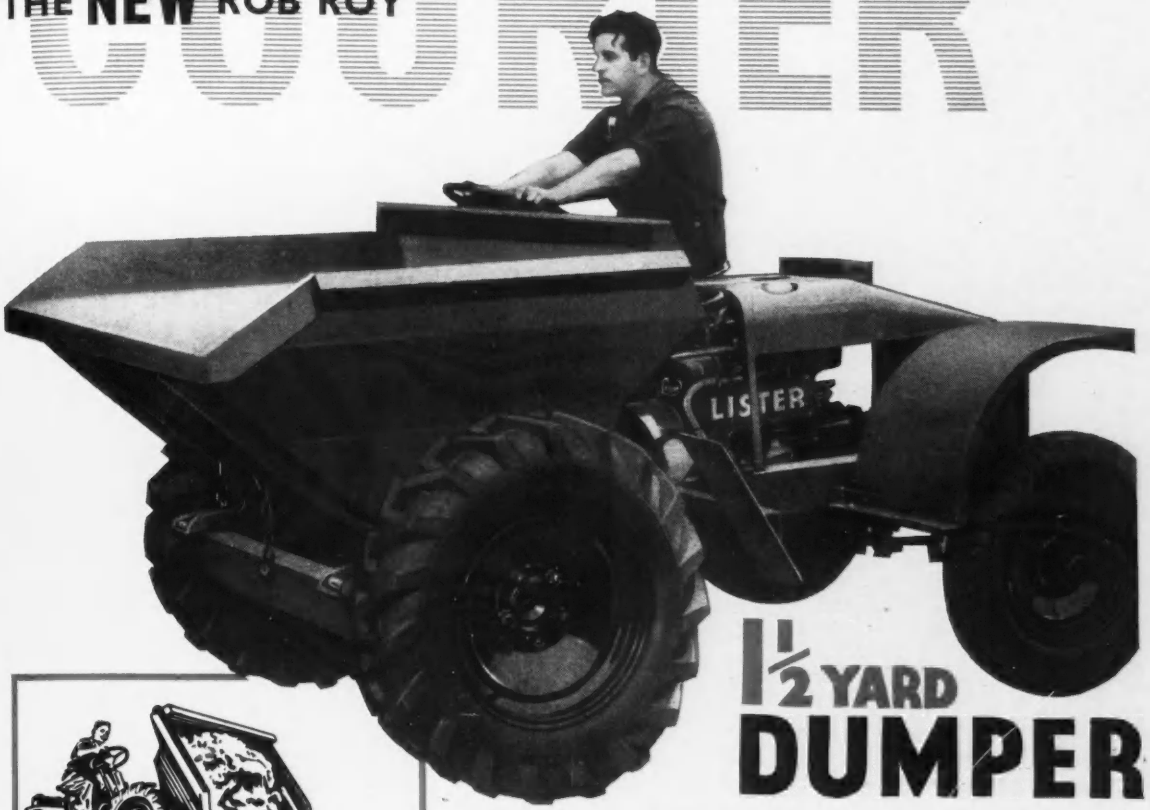

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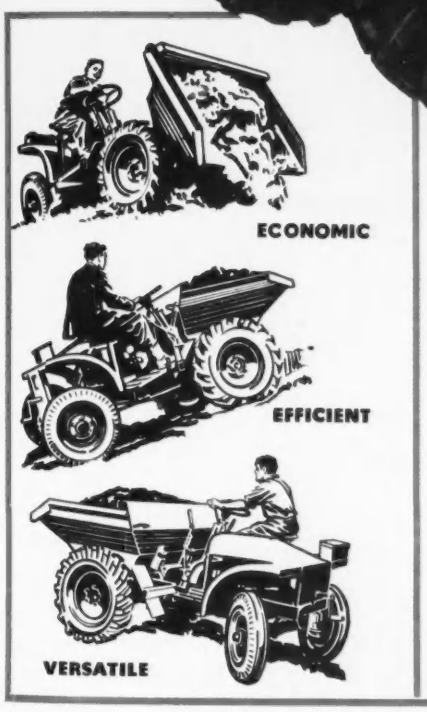

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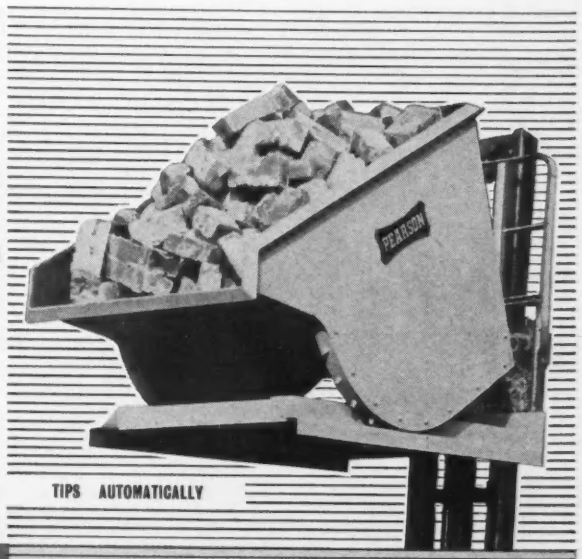

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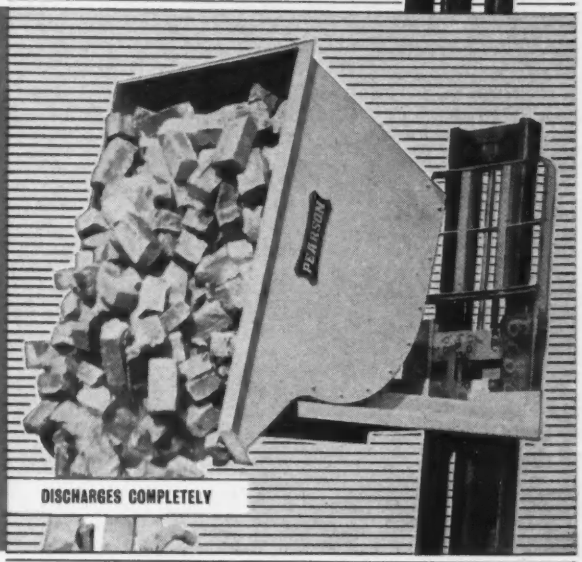

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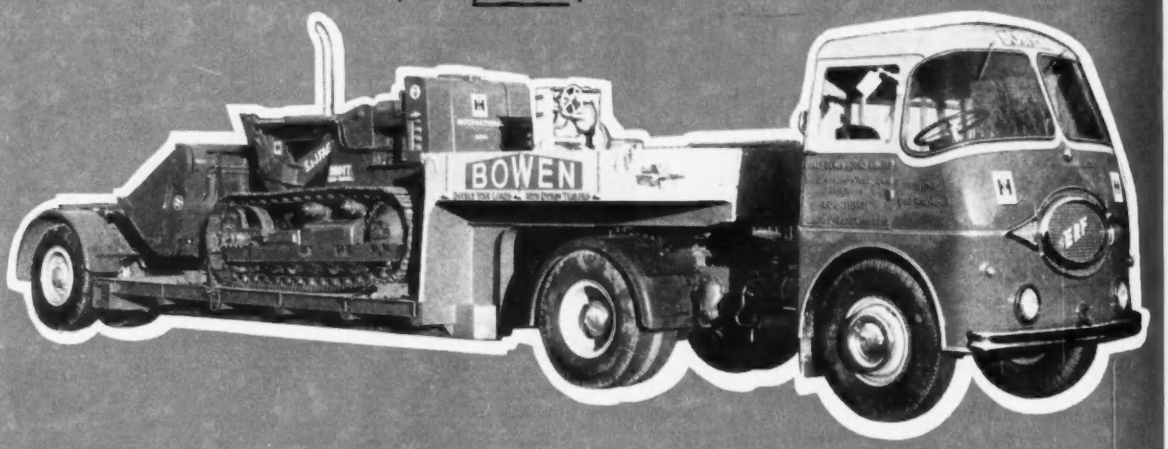

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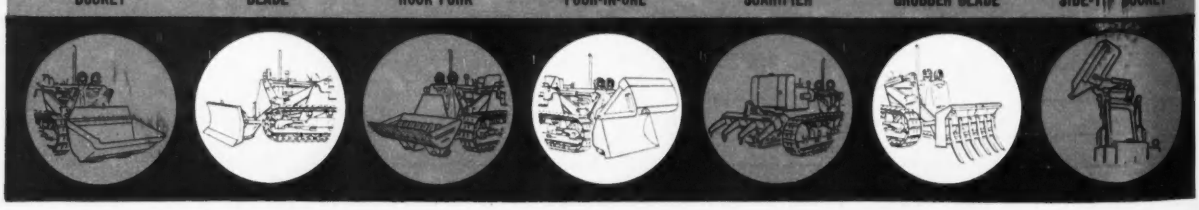

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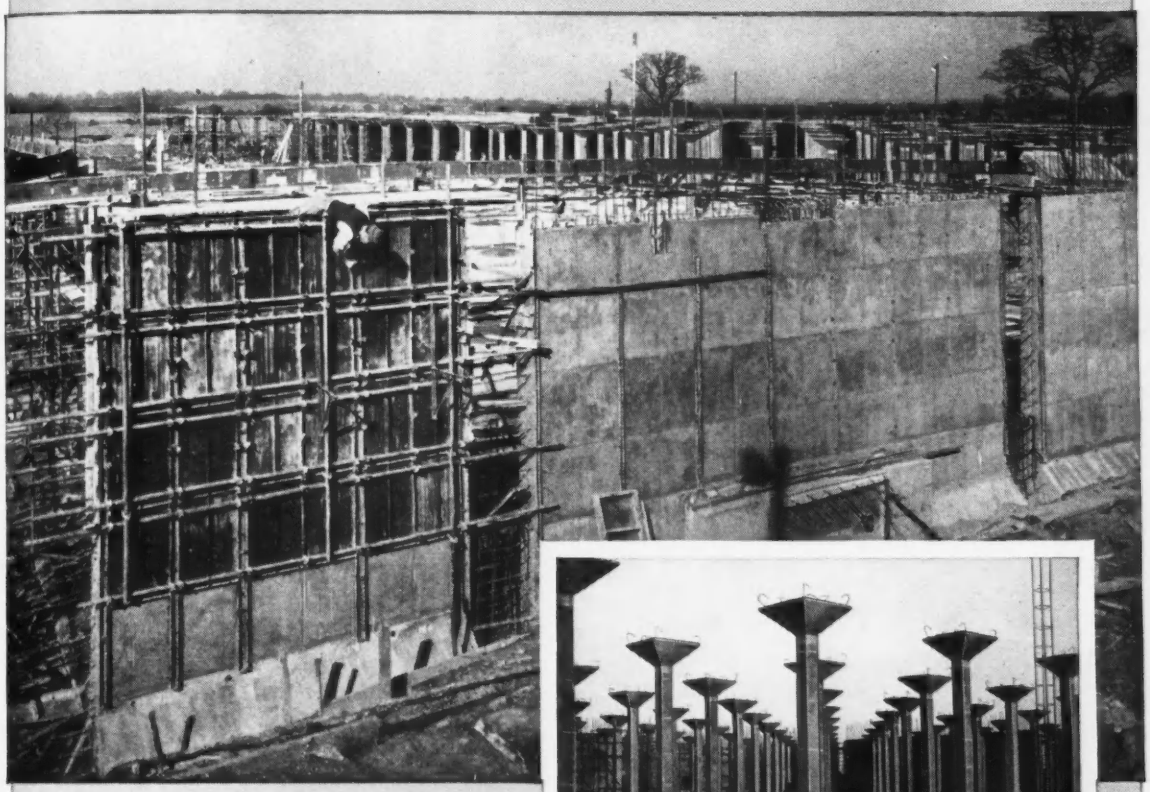

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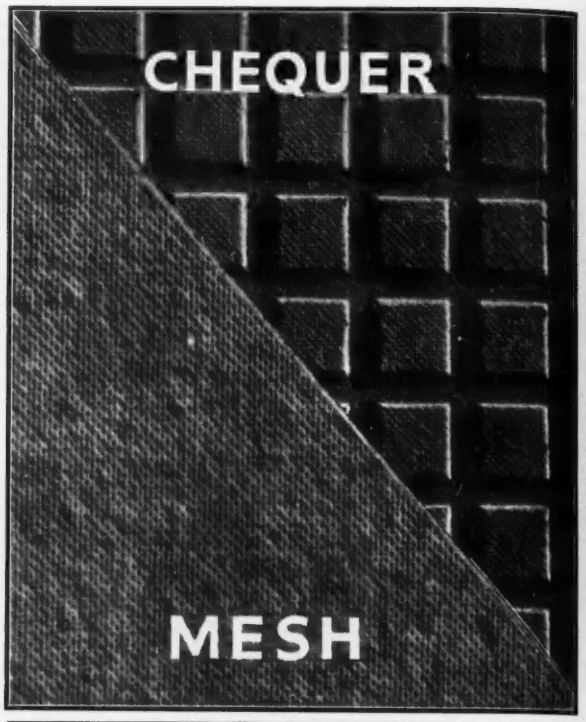

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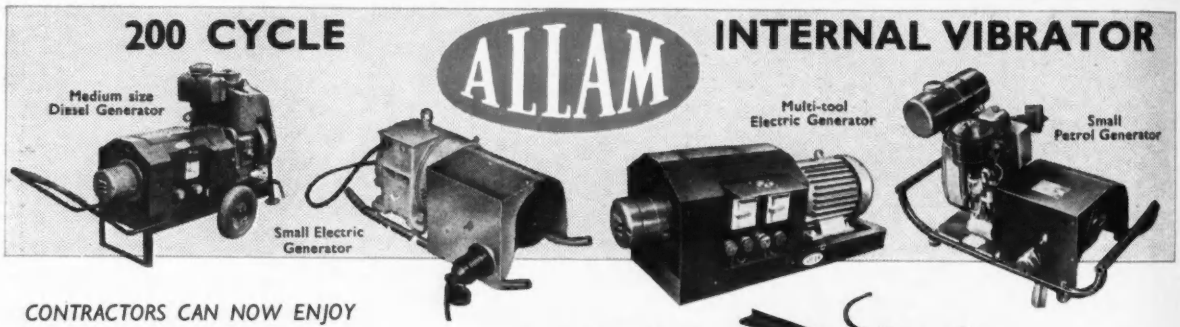

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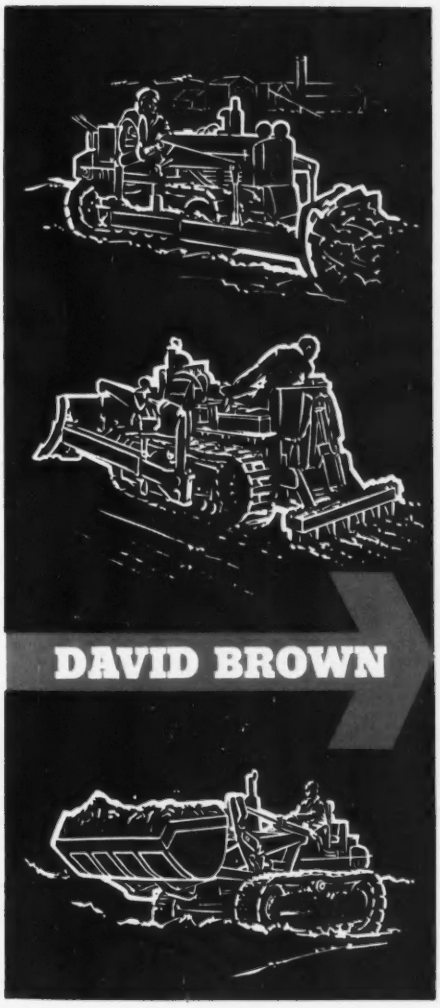

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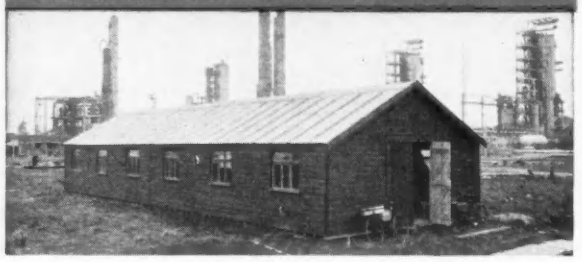

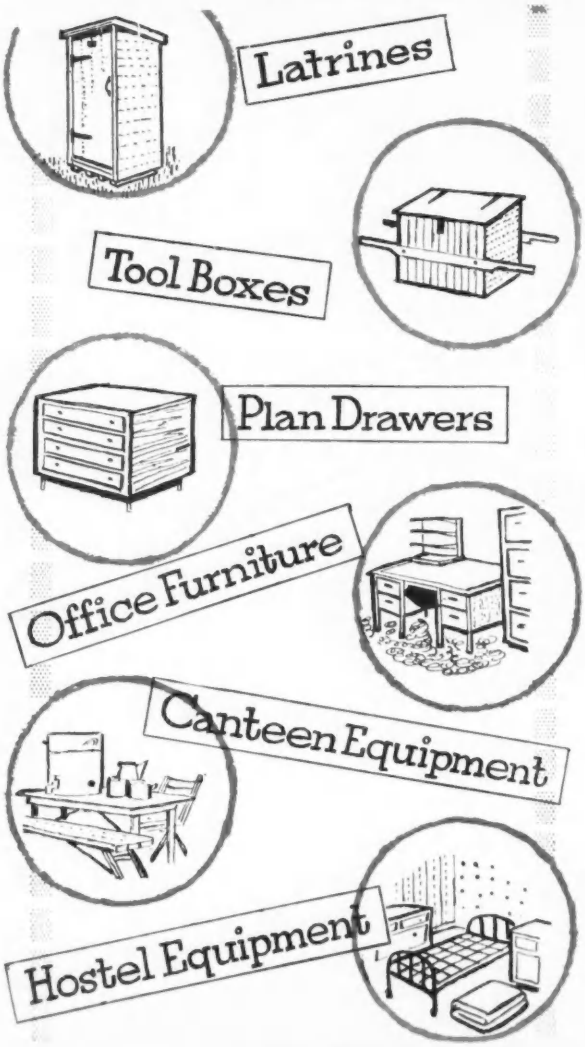

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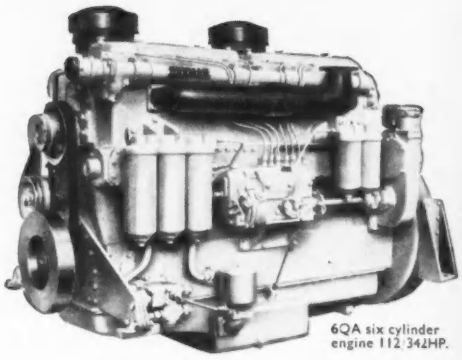

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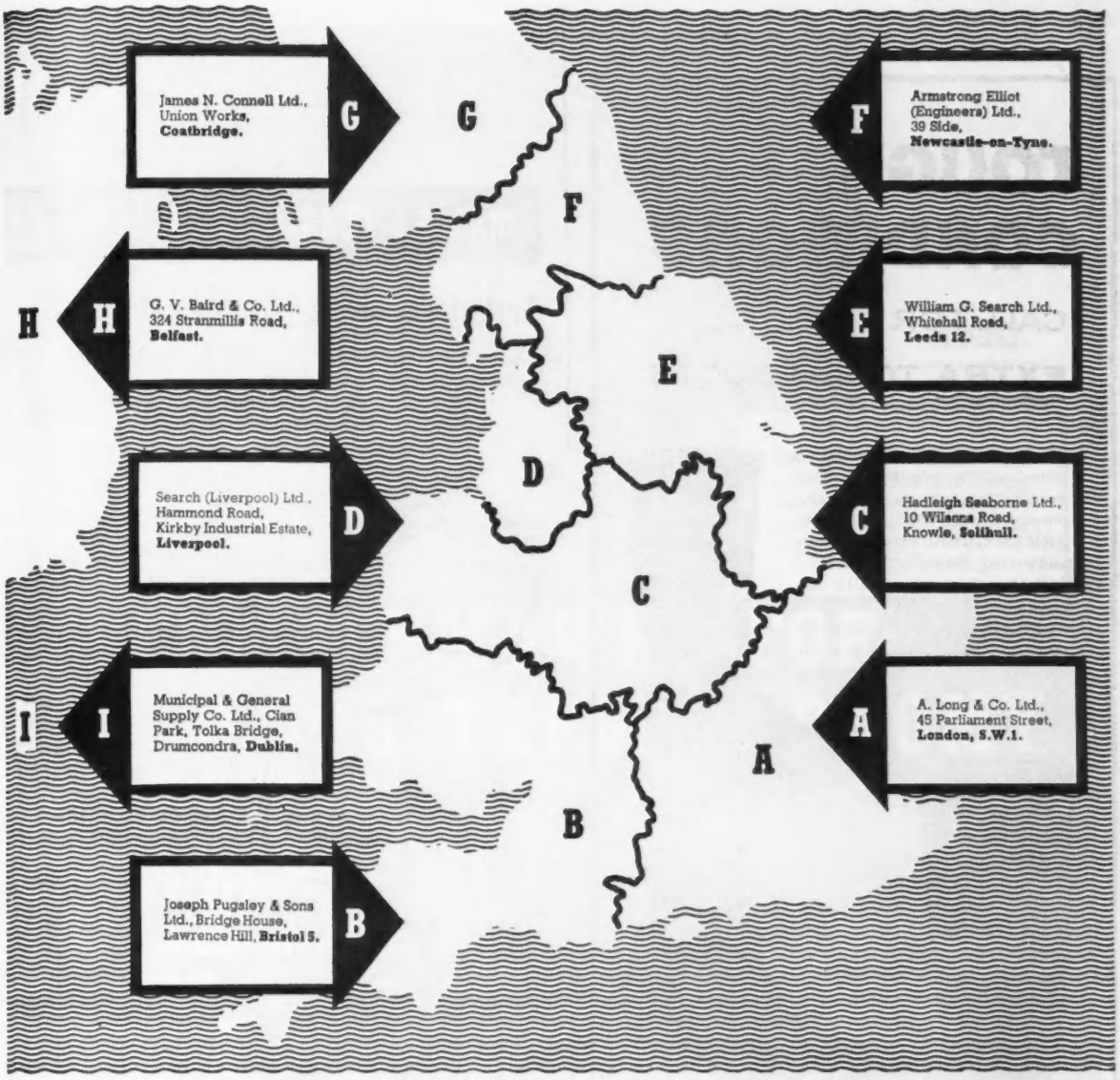

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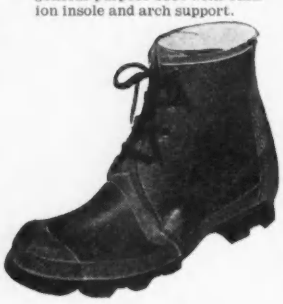

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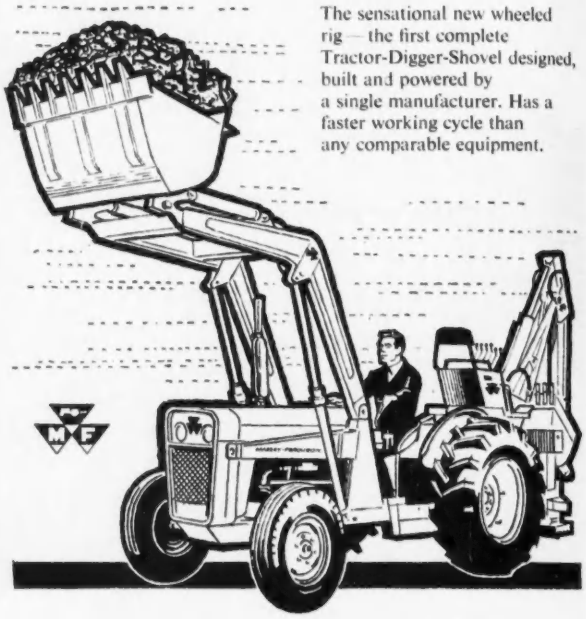

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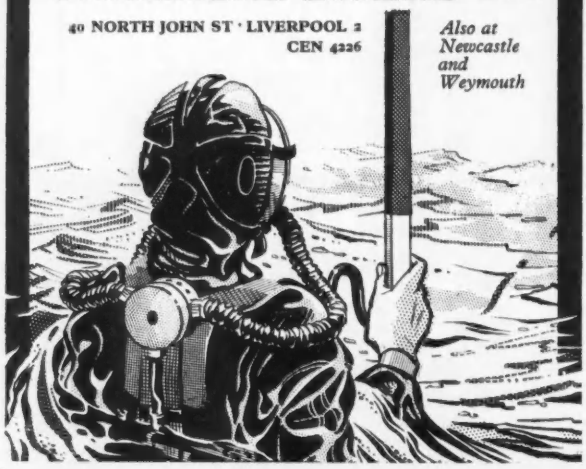

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AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

ASPHALTE CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4857 or Gerrards Cross 3496.) Manufacturers of all grades of gravel bitumen macadam, gravel asphalt and cold asphalt at Gerrards Cross.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

COFF, HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel. 1026/7.) (See Berkshire.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DRINKWATER, W. W. (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel. Denham 2241/2/3.)

GRUNDON, S. (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

HALL AND CO., LTD., Brentford, Middlesex (Tel.: Isleworth 4455) and Coronation Road, High Wycombe (Tel.: 4360/1), and at Gerrards Cross. Pits at Wraysbury (Middx.) and Iver (Bucks.).

JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, ashes, bulldozing and bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) 55A Porchester Terrace North, Paddington, W.2.

MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks (Tel.: Marlow 379.)

STUART MACEY, LTD., Gordon Road, High Wycombe (Tel.: High Wycombe 2591/2.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

CAMBRIDGESHIRE

DARBY'S SAND AND GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3. All grades of washed sand and gravel, ready-mixed concrete. Pits: Mepal and Chippenham, Cambs.

DICKERSON, M., LTD., Teversham Corner, Newmarket Road, Cambridge. All grades washed sand and gravel, reject stone, hoggin, breeze, clinker, "Terlite" crushed granite, foamed slag, concrete and brick hardcore, ready-mixed concrete—all grades. (Tel. Cambridge 46073/4.)

FRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) Washed sand and gravel.

MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and gravel, all to B.S. Specifications. Delivered to any site. Station Rd., Kennett, Cambs. (Tel.: Kentford 333/4.)

NORTH ROAD GRAVEL WORKS, LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) All grades washed sand and gravel, ready-mixed concrete and spun-concrete pipes. Pit: Wimblington.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

CARDIGANSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

CHESHIRE

BUCKTON QUARRY, Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel. Whaley Bridge 139.) Washed sand and gravel.

CAWOOD, WHARTON AND CO., LTD., Plas yn Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone, dry and coated, to B.S.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details see Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) Depot. Any quantity per day; immediate delivery ex stock.

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WILLIAMS, C. F., Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel.: Stockport 7096.) Building and concrete sand. Bulk sand and gravel filling a speciality.

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PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works, near St. Austell. (Tel.: Mevagissey 3335/6.) Gwithian Works, near Hayle. Pure silica gravel and grit, concreting, building, plastering and asphalting sands, elvan and granite aggregates, all sizes.

CUMBERLAND

BROOMBYS, LTD., Sandside, Milnthorpe (Tel.: 3251/2), Westmorland. (See Westmorland.)

ESK MANUFACTURING CO., LTD., Dalston Road, Carlisle, Cumberland. (Tel.: Carlisle 2-4941.) All grades washed, crushed gravel and concreting sand to B.S. Specification. Precast concrete products and partition blocks. Sand lime coloured facing and common bricks. Ex works or delivered.

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SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

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BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel. Chesterfield 7130.) Red shale, black ashes, graded clinker, filter media, stone slag, sand, gravel and hoggin filling. Bulk quantity supplies.

HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Mercaston. (Tel.: Brailsford 316.) And at Willington. (Tel.: Repton 3215.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)

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SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) Limestone and granite, dry or coated gravel and sand; kerbs, slabs, blocks, posts, reconstructed and natural stone; lime and ground limestone. Lightweight aggregates, ashes, red shale.

DEVONSHIRE

PLYMPTON TRADING CO., LTD., Marsh Mills, Plympton, Plymouth. (Tel.: Plympton 2361.) Washed and graded sands for all purposes. Special sands to B.S.S. Precast concrete.

DORSET

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset (Tel.: Portland 2207/8.) Tarred and bituminous macadam, foundation materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland cement aggregates for reconstructed stone. By road and sea.

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., 8 Commercial Road, Parkstone. (Tel.: 5379.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

DURHAM

BRAITHWAITE, A., AND CO., LTD., Knaresborough Yorks. Quarry at Catterick. (Tel.: Old Catt. 157.) (For details see Yorkshire.)

ESSEX

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concreting sand and building sand. Road and water transport.

BAKER, F. AND E., LTD., 73 High Road, Rayleigh, Essex (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore ashes and bricks.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BENT-MARSHALL (LEYTON), LTD., 665-667 High Road, Leyton, E.10. (Tel.: Leytonstone 4047/8.) Sand, ballast, brick and concrete hardcore delivered all areas.

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

FERRIS PITS, LTD., The Limes Garage, Fencepiece Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stanford-le-Hope, and Upminster. All grades of washed aggregates, plastering sand and building sands supplied and delivered, also hardcore and ashes.

HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concreting, plastering and building sand.

HUNNABLE, F. A., AND SON, LTD., Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1351.) Graded washed stone, ¼in. to rejects; washed concreting sand and washed soft building sand. Classified sand for asphalt. Pits at Braintree, Bocking, Hennies End, Hedingham and Alphamstone.

LEIGH BUILDING SUPPLY CO., LTD., Head Office: 956 London Road, Leigh-on-Sea, Essex. (Tel.: 78264—3 lines.) All grades washed materials building sand, hardcore, ashes, bricks, granite.

PETERS AND BARHAM, LTD., 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; sand. Pits at Ashelham, Chignall St. James, Dagenham, Great Waltham North Ockendon, Roxwell, West Thurrock.

READ, P. T., LTD., Foxlands Gravel Pit, Foxlands Crescent, Dagenham. (Tel.: Hainault 6111.) All sands, ballast and shingles supplied and delivered also ready-mixed concrete.

READ, P. T., LTD., Fairlop Airfield, Forest Road Ilford. (Tel.: Hainault 6111/2/3.) High-grade sands, ballast and shingles supplied and delivered; also ready-mixed concrete.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham Walter. Graded aggregates supplied or delivered.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) Washed and graded aggregates. Local Office and pits: Tillingham 287

WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

GLOUCESTERSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BENGHY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

COKE, T. F. (CHELTENHAM), LTD., 257 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone chippings, tarred and bituminous limestone, concrete blocks, fence posts, etc. etc.

CROMHALL QUARRIES, LTD., Cromhall, Wotton-under-Edge, Glos. (Tel.: Falfield 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.

Rates for insertion in this GUIDE will be forwarded on application.

CONTRACTORS' GUIDE TO AGGREGATES

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GRIFFITHS, A., AND SONS, Churchdown, Gloucester Pit, quarry and dredger owners. All grades and types aggregate materials. (Tel.: Churchdown 3135 & 2210.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concreting, plastering and building sand.

POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

TAYMAC, LTD., Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391—5 lines.) (See Wiltshire.)

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tarred and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing sand, common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel. 2264.) Concreting aggregates (reconstituted, pit-mixed, weighbatched to meet any specification) also ballast, hoggin, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.

DANGERFIELD, F. J., & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates kerbs setts (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Baltic Wharf, Marine Parade, Southampton (Tel.: Southampton 21234), and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concreting, plastering and building sand.

HASKINS, G., AND SONS, Queen Street, Emsworth. For washed sands and graded aggregates path and road gravels, hoggin, clinker, ashes. (Tel.: Emsworth 2693.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggin, path gravel.

NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

PRIVETT, W. G., AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggin, ashes, washed and graded filter media, etc.

RALPH OF BASINGSTOKE, LTD., 37 Kempshott Lane, Basingstoke, Hants. (Tel. 85.) Concrete aggregates, building sand, path gravel, hoggin, etc.

WRAYSBURY SAND AND GRAVEL CO., LTD., Station Rd., Theale, Reading, Berks. (Tel.: Theale 373.)

WESSEX SAND AND GRAVEL CO., 126 Hillside Ave., Southampton. (Tel.: 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggin, building sand, etc.

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BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) Suppliers of all grades of crushed concrete aggregates, road metalling, pitching stone, hardcore and coated macadam.

DINMORE GRAVEL AND STONE CO., LTD., 5A King Street, Hereford. (Tel.: Hereford 5523.) Suppliers of all grades of concrete aggregates, sand, pitching stone and hardcore.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tarred and bituminous macadam, roadstone, chippings and concrete aggregates, etc.

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) Granite and limestone aggregates, coated macadam, concrete products.

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel 961), Salop.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddesdon 2456.) Producers and distributors of all grades of washed aggregates.

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel. HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.

HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage (Tel.: 775), and at Hatfield. Gravel aggregates, concreting, plastering and building sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead. (Tel.: Berkhamsted 1208/9.) Pits at Watford, Leighton Buzzard, Heath and Reach, and Bedford.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2354/5). (See Northants.)

GRAVEL PRODUCTS (HUNTS.), LTD., St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries to Beds., Hunts. and South Cambs.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes silica clay and sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire.)

KENT

BRASTED SAND PITS, Brasted, Kent (Tel. 586.) London office: 10A Ellery Street, S.E.15. (Tel.: New Cross 3337.) Soft and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes etc.

BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent, (Tel.: Sittingbourne 330). Sand, ballast, shingle, hardcore, clinker, breeze blocks, etc.

CLUBB, J., LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.

DIAMOND TREAD CO. (1938), LTD., Ditton Court Quarry, Larkfield, near Maidstone. (Tel.: West Malling 3444.) Quarryowners; tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)

DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarryowners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkfield, near Maidstone, Kent. (Tel.: W. Malling 3444.)

HALL AND CO., LTD., Canning Street, Maidstone (Tel.: Maidstone 51051), and at Folkestone and Hayes. Pits at Lunsford, near Larkfield. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Station Road, Paddock Wood, Kent (Tel 385.) (See Sussex.)

TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers of tarred, bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

BUCKTON QUARRY. Broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) Lee Quarries, Bacup (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.

CROFT GRANITE BRICK AND CONCRETE CO., LTD., West Bank, Widnes. (Tel.: 2656.) "Kubilized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmastite" Wet Mix, filter media, concrete products.

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day

DUNNING AND SON, LTD. (See Shropshire.)

HARTLEY, JOHN W., LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producers of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all constructional purposes.

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheadle, Staffs. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaston Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.
Liverpool and Preston Depots:
Office: 7 Picton Road, Liverpool, 15.
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Manchester Depot:
Office: Cornbrook Road, Manchester, 15.
(Tel.: Trafford Park 3830.)

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TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Local Office and pits, Chorley 3923.

WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex-stock.

X.L. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London Office—Norwood Hill 115.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and wet mix. Prompt road/rail delivery.

BRUNTINGTHORPE GRAVELS, LTD., Gilmorton, near Rugby, (Tel.: Lutterworth 46.) All sizes gravel aggregate, building and concrete sand to B.S.S., scientifically balanced ballast.

CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 561/2/3.) Granite aggregates to B.S.S. All sizes. Tarred and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.

CROFT GRANITE, BRICK AND CONCRETE CO., LTD., Croft, near Leicester. (Tel.: Narborough 2261—4 lines.) "Kubilized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmastite" Wet Mix, filter media, concrete products.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 56682.) Quarries at Enderby. London Offices: 29 Dorset Square, N.W.1. (Tel.: Amb. 1141.)

HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

MOUNTSORREL GRANITE CO., LTD., 21 New Walk, Leicester. (Tel.: 56682.) Quarries at Mountsorrel, near Loughborough. 1gin. pink granite a specialty. London Office: 29 Dorset Sq., N.W.1. (Amb. 1141.)

WANLIP GRAVELS, LTD., Wanlip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford (Tel. 4587/8/9.) (See Northamptonshire.)

WREAKE VALLEY GRAVELS CO., LTD., Melton Mowbray. (Tel.: Pits—Rotherby 205 or head office Melton 2488.) All grades washed aggregates and sand.

LINCOLNSHIRE

BLADES AND WAITE, Waddington, near Lincoln. (Tel.: Waddington 365.) For sale any quantity of ash, stone, sand and gravel.

BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham. (Tel.: Thistleton 223.) Building sand, hardcore ashes. All grades washed sand and aggregates

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggin. Ex-quarries or delivered.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castledyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

GIBBONS, F. B., AND SONS, LTD., Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Langtoft, near Peterborough. (Tel.: Market Deeping 2210.) All grades washed sand and aggregates

HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartsholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Ropsley, all grades of hardcore and broken stone. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at Tallington, near Stamford, Lincs. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, 'phone Market Deeping 3132.

TRENTFORD GRAVELS, LTD., Head Office: Deansgrove, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

COX, H., AND SONS, LTD.,
33 Southampton Way,
Camberwell, S.E.5.
(Tel.: Rodney 2215—3 lines.)

CROFT GRANITE, BRICK AND CONCRETE CO., LTD., 128-136 High Street, Edgware, Middlesex. (Tel.: Edgware 0076/7 and 1246.) "Kubilized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmastite" Wet Mix, filter media, concrete products.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMpstead 8044-8.) Granite, limestone or slag, coated or dry, all sizes and pitching, granite kerb and setts, felspar quartz and other minerals by road or rail, or ex-London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel. Portland 2207/8.) (For details see Dorset.)

DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLAdstone 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel. HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at East Dulwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering sand building sand.

KEEN, W. J., AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballast, shingle and hardcore supplied.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5060. 55A Porchester Terrace North, Paddington, W.2.

READE F. T., LTD., Downs Works, Amhurst Terrace, Hackney, E.8. (Tel.: Clissold 6971/2.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

ROADS RECONSTRUCTION (1934), LTD., Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

MIDDLESEX

CROSS, GEO. C., AND CO., LTD., Ironbridge, Uxbridge Road, Southall. (Tel.: Southall 2264/5/6.) Sand, ballast, shingle, hardcore, ashes, etc

DRINKWATER, W. W. (WILLESDEN), LTD., Staines Rd Hounslow Hth., Middx. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel. HOWard 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GRUNDON, S., 79 Harlington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantrey House, Eccleston Street, S.W.1 (Tel.: Sloane 7122), and at Ashford and Brentford. Pits at Bedfont, near Feltham. Gravel aggregates, concreting, plastering and building sand.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5060. 55A Porchester Terrace North, Paddington, W.2.

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 2361.) Gravel aggregates, concreting, plastering and building sand.

WRAYSBURY SAND AND GRAVEL CO., LTD. Pits at Wraysbury. (Tel.: Wraysbury 164.) Gravel aggregates, concreting, plastering and building sand.

CONTRACTORS' GUIDE TO AGGREGATES

MID-WALES

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.:: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Cardiff 63311) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office: 38 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metalling, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

MONTGOMERYSHIRE

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely, Cambs. (Tel.: Sutton 391/3.) Washed sand and gravel. Pit: Feltwell.

JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington St. Clement 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 332434.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore, etc.

BILLING GRAVEL CO., LTD., Station Road, Billing, Northampton. (Tel.: Cogenhoe 219). London office: 23 Berkeley Square, W.1. (Tel.: Mayfair 6341.)

BRAYBROOK, E. W., LTD., Newton Road, Higham Ferrers, Northants. (Tel.: Rushden 3344 and 3345.) All grades of washed and graded aggregates to B.S.S., Building sand, hardcore.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone, roadstone, hardcore, broken stone, ashes, sand, gravel and hoggin. Immediate delivery throughout Northamptonshire.

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S.S. Deliveries throughout Northamptonshire and adjoining counties.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel. Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

MACKANESS, A. J., LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand. Mixmortar (lime/sand mortar). Prompt deliveries.

NENE BARGE AND LIGHTER CO., LTD., Market Chambers, Peterborough (Tel. 5534/5), and Ship End Quarries, Wansford, near Peterborough (Tel.: Wansford 384/5). Roadstone, hardcore, broken stone, ballast, ashes, silica clay and sand.

NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yarwell, Wansford. All grades gravel and sand at Maxey.

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Portly Ford. (Tel.: Welford 256.)

NORTH WALES

CAWOOD, WHARTON AND CO., LTD., Pistyll Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.

CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Yale 43.) Hard, broken limestone, dry and coated to B.S.S. Inquiries to Registered Office — Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)

ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) (For details, see Shropshire.)

ENSTON BROS., Llwyn Isaf Quarry, Clynnog Fawr, Caernarvon. (Tel.: Clynnog Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Tel.: Llanrwst 38.)

PENMAENMAWR AND WELSH GRANITE CO., LTD. Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynnogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.

RUTHIN AND DENBIGH TARMACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 7408—4 lines), and Lunt Bros., Ltd., Stourbridge (Tel. 5201—6 lines).

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel; could be collected ex-quarry or delivered.

GUNTHORPE GRAVELS (1958), LTD. (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.S.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierrepont Colwick, Bleasby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 8,000 tons per day.

NEWARK GRAVEL AND CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton (Tel.: Cogenhoe 464) for washed and graded aggregates to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades limestone tarmacadam, dry, pitching stone, hardcore etc.

CURTIS, J., AND SONS, LTD., Botley Works, Oxford. (Tel. Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts (See London.)

DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 234.)

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

GRUNDON, S., (EWELME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggin, broken stone, building sand.

HAINES, H., (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.

WRAYSBURY SAND AND GRAVEL CO., LTD., Station Rd., Theale, Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD. Quarries in Radnorshire. (Tel.: Kington 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

RUTLAND

BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham, Lincs. (Tel.: Thistleton 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.

GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2383.) (See Lincolnshire for details.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

KETTON STONE CO. (Prop.: Andrew's Garage), Ketton, nr. Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.

RUTLAND

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)

POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDER, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S.S. Any tonnage available for immediate delivery.

ELLESMERE SAND AND GRAVEL CO., LTD., Wood Lane, Ellesmere, Salop. (Tel.: Ellesmere 167.) All grades of washed gravel, aggregates, concreting and building sands.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (Tel.: Bayston Hill 351.) High quality roadstone, chippings, concrete aggregates, hardcore and coated macadam. Large tonnages always available.

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington (Tel. 11.) (See Herefordshire.)

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

TERN HILL SAND AND GRAVEL CO., LTD., Almington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffordshire for details.)

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tarred and bituminous macadam to B.S. Ex-quarry and delivered.

DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Longmoor House, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concreting, plastering and building sand.

ROADS RECONSTRUCTION (1934), LTD., Stoneleigh House, Frome. (Tel.: Frome 2361.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.

WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet. (Tel.: Shepton Mallet 2366/7.) All sizes basalt, crushed basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032) and Phoenix Works, Cardiff (Cardiff 63311) for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.

PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel. 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite aggregates from Ewenny Quarry, Bridgend. (Tel. 1086/7.) Coated stone also available.

SESSIONS AND SONS, LTD., West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)

SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea (Tel.: Swansea 53071—5 lines.) Sand and gravel merchants, builders' merchants. Pennant Quarry owners, slag hardcore, ashes, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry Port Talbot, Briton Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output, reliable deliveries.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For dets., see Leics.)

CROXDEN GRAVEL, LTD., Cheadle, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD., Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

HILTON GRAVEL, LTD., Cheadle, Staffs. (Tel.: Tean 241.) Also at Longton, Stoke-on-Trent (Tel.: Longton 32196) and Stretton, Burton-on-Trent (Tel.: Burton 6051).

HULLAND GRAVEL CO., LTD., Cheadle, Stoke-on-Trent. (Tel.: Cheadle 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaston Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)

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WRIGHT, C., AND SONS (B'TON), LTD., 19 Bristol Gardens, Brighton, 7. (Tel.: Brighton 63357 and 62406.) All-in ballast, washed and crushed shingle, sand, ashes, hardcore, chalk, bricks, etc.

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BULL BROS., G. AND L., LTD., 126A High Street, Winchester. (Tel.: 3264.) (See Hampshire.)

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DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMpstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

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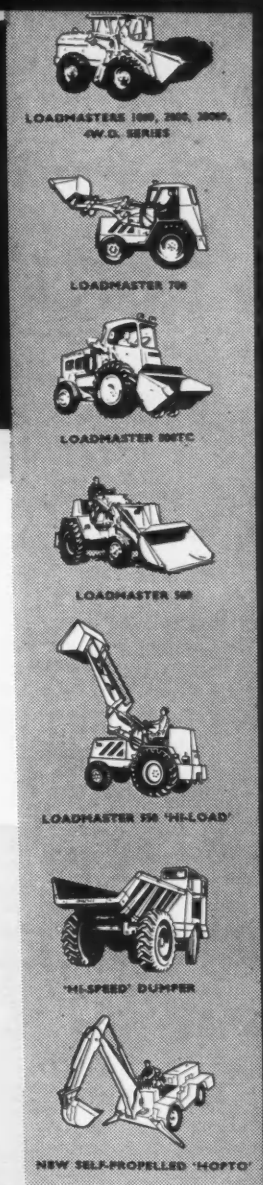

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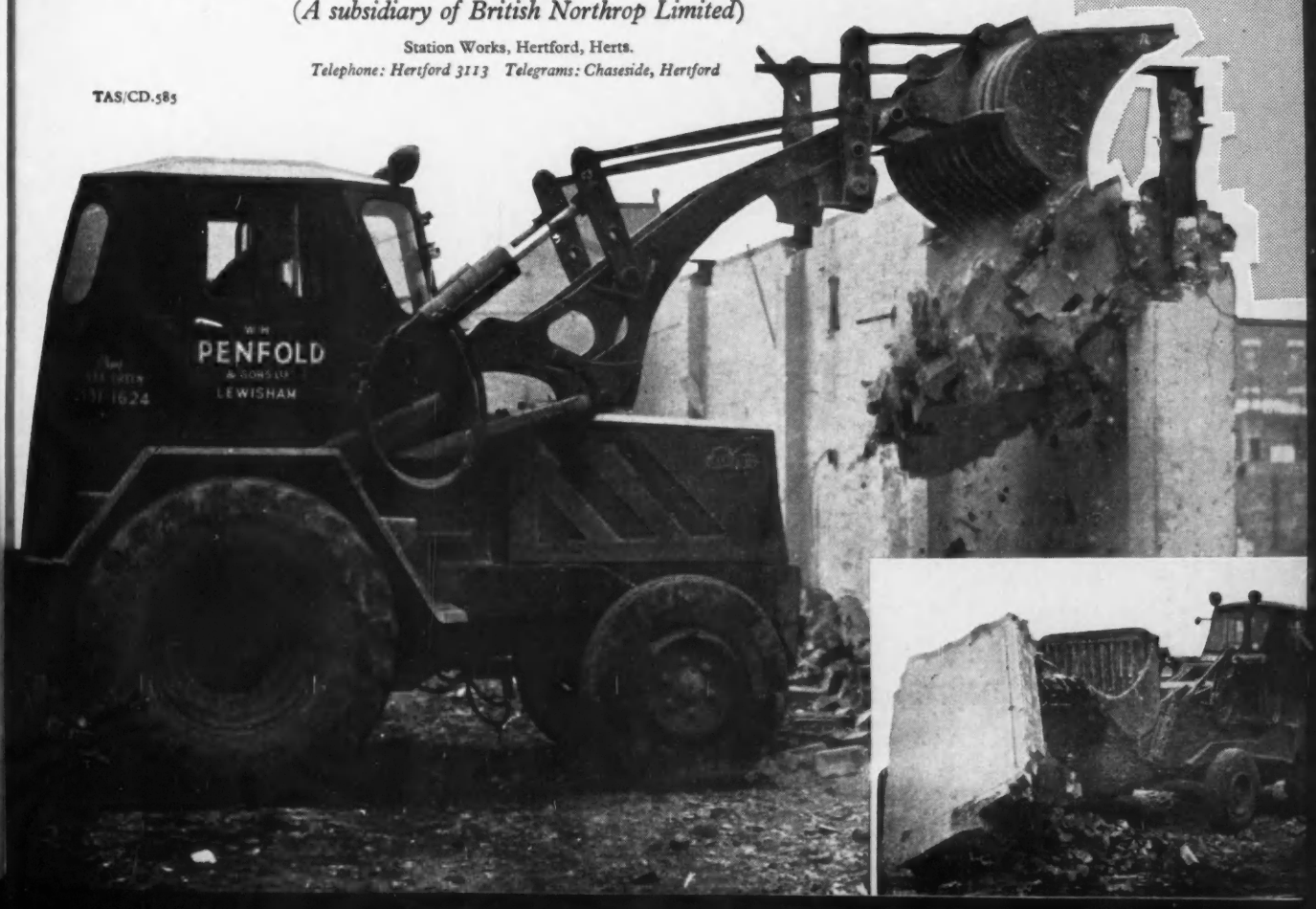

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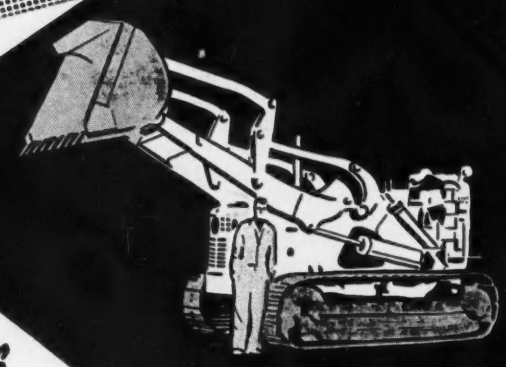

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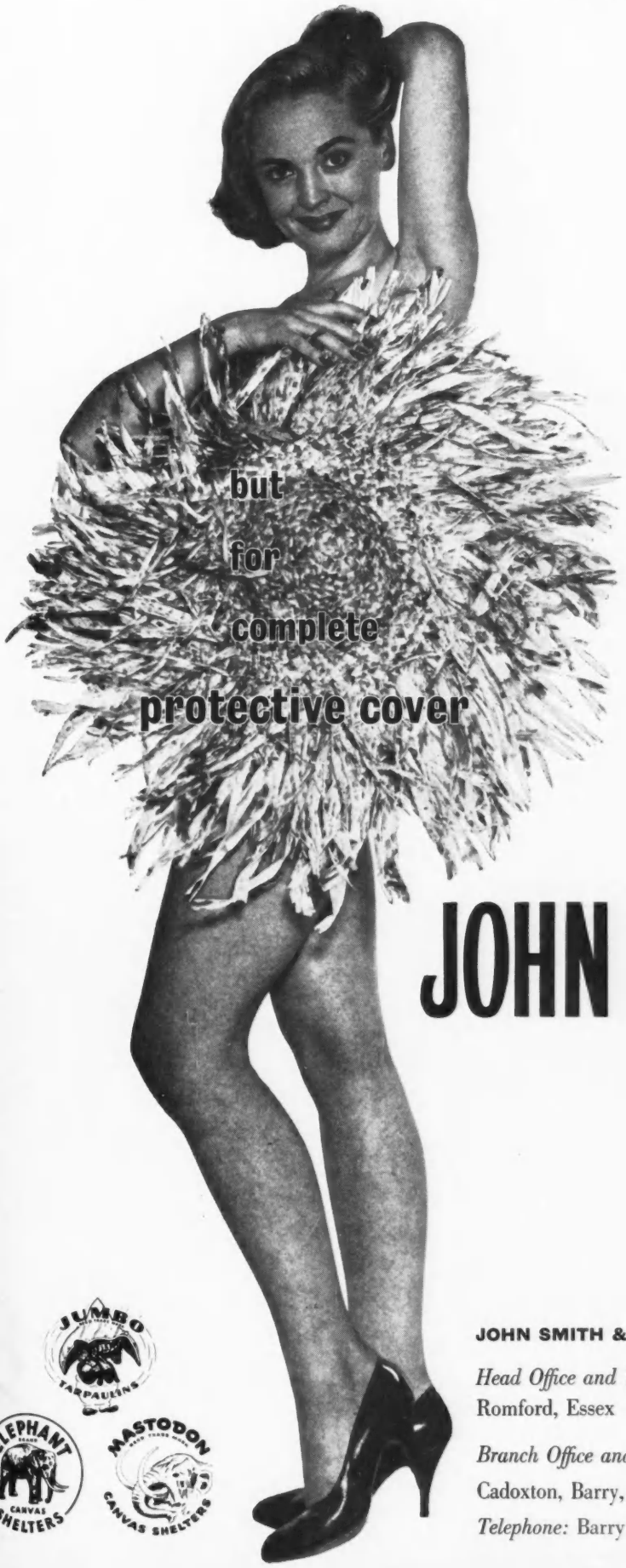

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